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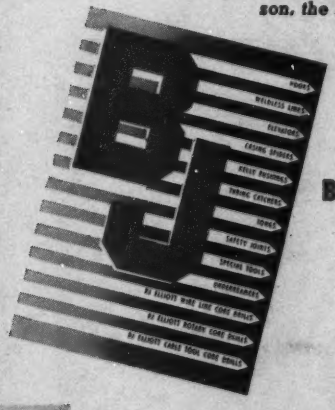

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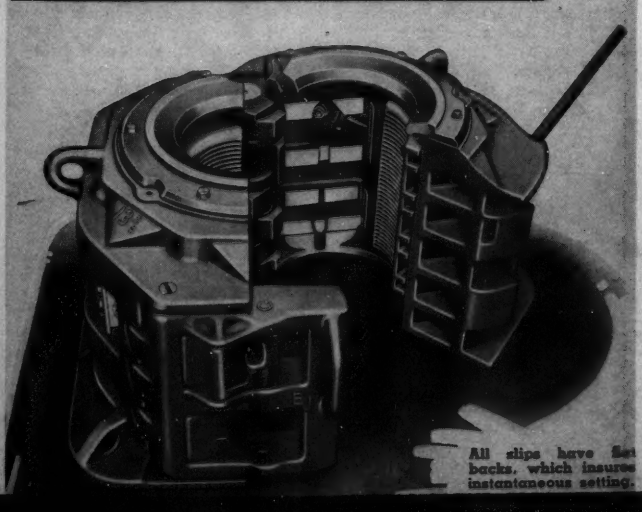

All slips have set backs, which insures instantaneous setting.

(Left) With the door opened and one slip removed. Notice the massive stirrup-type latch which holds the two halves of the body together. To change slips it is necessary to remove only one bolt in each slip. You do not disturb any of the operating mechanism.

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TOOLS

Vol. 33
No. 9
Whole
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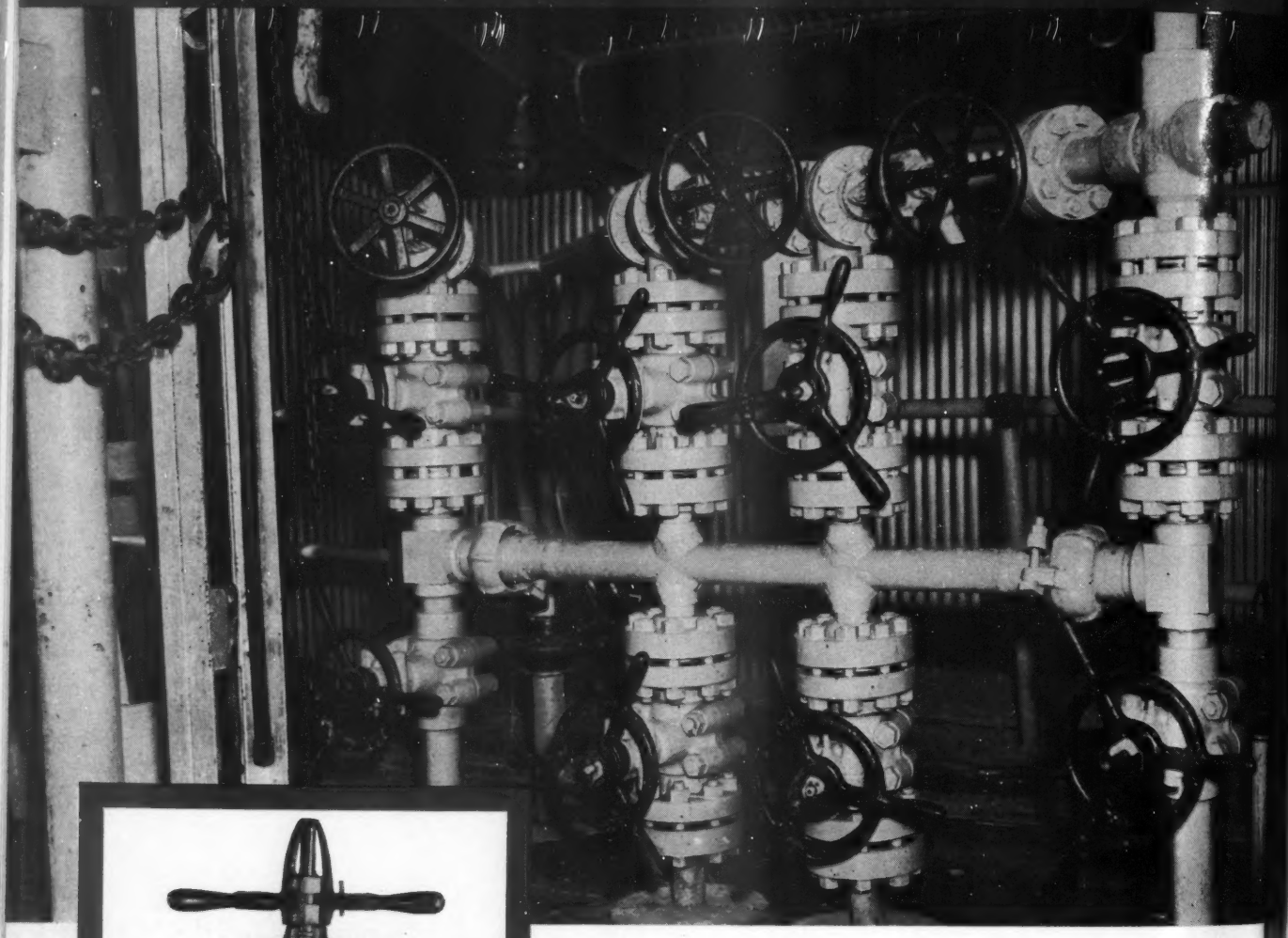
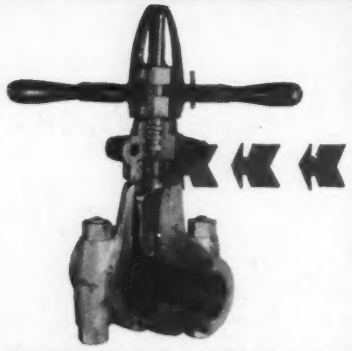
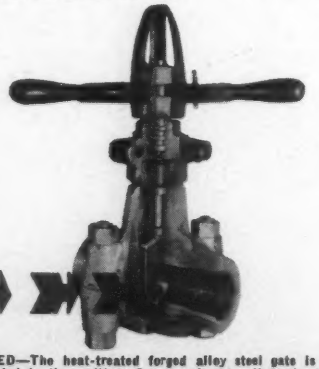




OPEN—The resilient lip type stem packing is expanded to provide a pressure-tight seal. Note that the gate is retracted completely out of the flow-way.



CLOSED—The heat-treated forged alloy steel gate is firmly embedded in the resilient flow-way insert. Note the indicator stem which tells you when to replace the insert.

Cameron Flex-Seal Mud Valves Continue To Set Records For Low Cost, Trouble-Free Performance

This unique forged steel mud valve will soon pay for itself through reduced maintenance cost. Its renewable resilient flow-way insert absorbs the cutting action of abrasive fluid at an extremely slow rate of wear. When the resilient insert is finally worn out, it may be replaced quickly and easily in the field with ordinary rig tools. As shown in the accompanying illustrations, the resilient insert provides a seat for the heat-treated alloy steel gate, readily embedding any trash or cuttings, and effects a pressure-tight seal between the 2-piece valve body. It is the only gate type valve without a metal-to-metal seal. The body, which clamps the hubs by means of interlocking shoulders and grooves, may be readily fitted with flanged, screwed, welded-on or any special connection desired. This design permits the valve to swivel like a union when making up in a manifold.

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CALIFORNIA
OIL WORLD
and Petroleum Industry

THE AUTHORITY ON THE CALIFORNIA OIL INDUSTRY

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MAY 1940
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WHOLE NO. 1560

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May 8, 1940

Telephone Number Richmond 2136

VIEWS and NEWS

Del Valle Anticline Oil Prospects

Favored by Geologists

One of the most interesting of Los Angeles county wildcat wells is getting under way in Section 16, 4-17 near Castaic where the Havenstrite brothers, Russell and Homer, are preparing to drill on a block of leases comprising some 1500 acres. The first well is to be drilled in the 160 acre fee property of Lincoln Petroleum Co.

The name Del Valle Anticline has been given to the principal geological feature of this area, the center of which is about 3 miles westerly of Castaic Siding, now Newhall Ranch Siding. The latter is on a branch line of the Southern Pacific Railroad at the junction of the Los Angeles-Bakersfield highway and the Castaic-Ventura highway. The railroad and the Ventura highway both traverse the Southern portion of the Del Valle area which comprises approximately 2,000 acres in Sections 14, 15, 16, 21, 22 and 23 in Township 4 North, Range 17 West. The boundaries are roughly the San Martinez Grande Canyon on the west, a sharp asymetrical syncline on the north, San Francisco Rancho on the east, and Santa Clara River on the south. The name Del Valle is from a flag station of that name on the railroad at the south edge of the area. From the center of Los Angeles the region is 45 miles via the highways mentioned, and 2 miles north of the Newhall-Potrero oil field discovered by Barnsdall Oil Company in May, 1937. (See accompanying map).

Semi-rounded hills of moderate relief dissected by a system of flat-bottomed canyons, constitute the general terrain of the immediate Del Valle district. Elevations range from 900 ft. to 1500 ft.; about a mile and a half west of the area an elevation of over 2,100 ft. is attained near the location of the abandoned Superior Oil Co. Pena No. 1 test well. Sage brush and grass and a few oak trees in the canyons make up the chief natural vegetation. Except where terrace and bottom lands are utilized to raise such crops as grain and alfalfa, the area has little present value other than for grazing.

Accessibility of Test Location

The location on the Lincoln Petroleum Company fee property is easily reached by ordinary passenger automobile by traveling three-quarters of a mile northerly on a good oiled road up San Martinez Chiquito Canyon, thence one-half mile westerly on a dirt farm road. To accommodate trucks the latter road has been widened and regraded in places.

Stratigraphy

The geological formations pertinent to the prospects for oil in the Del Valle region, and their estimated thicknesses have been summarized by R. W. Sherman as follows:

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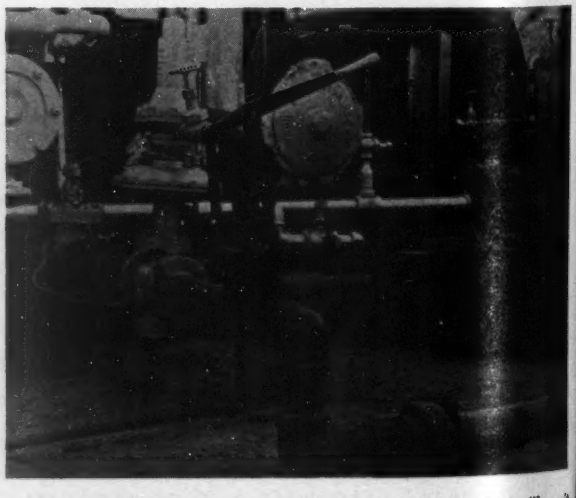
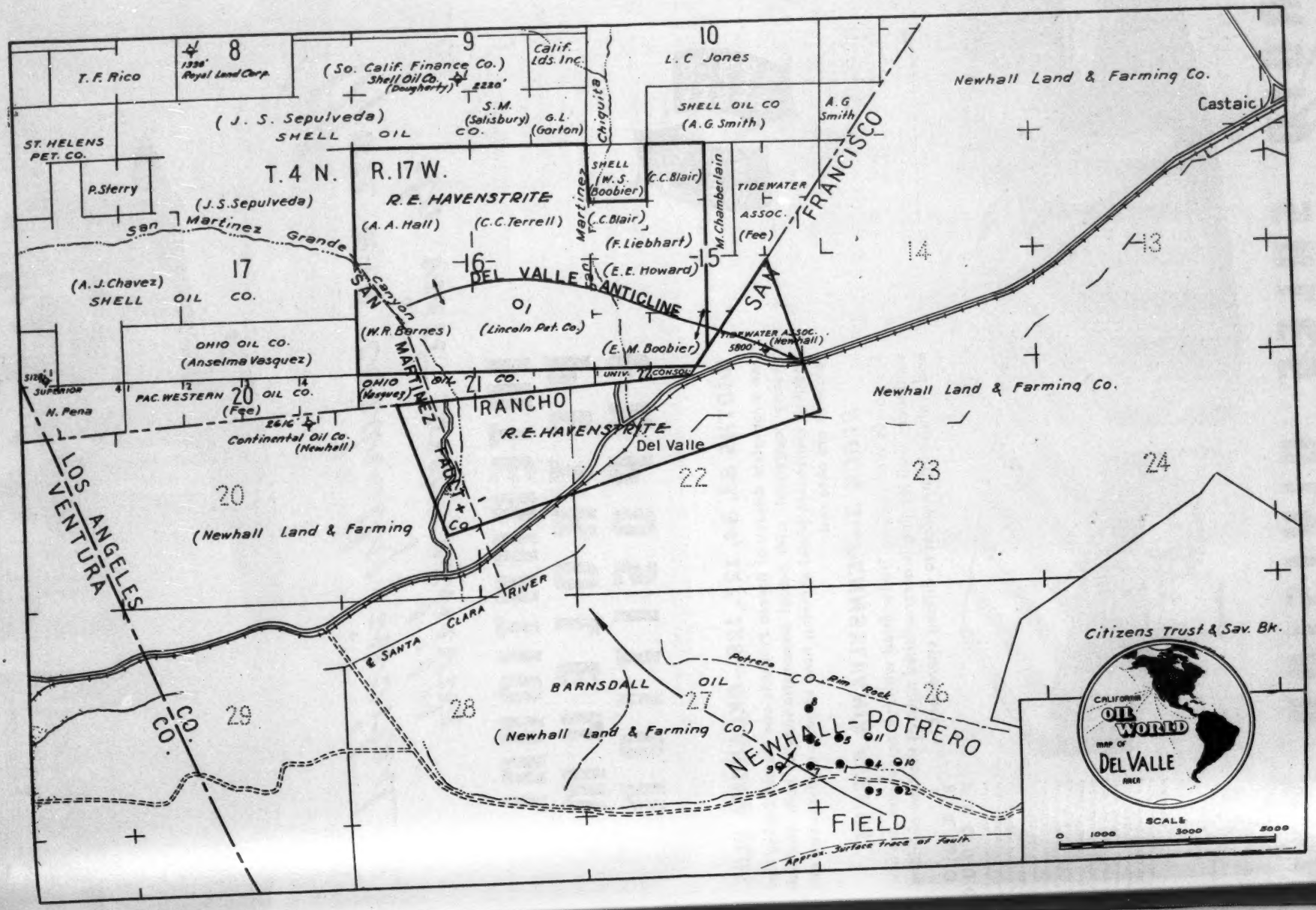


Control is important in deep drilling. At left is the drilling fluid testing equipment, at right, the boiler fuel regulator which "hasn't missed yet." This is on the Wheeler Ridge test.


T. 4 N.
R. 17 W.
T. F. Rico
8
1338' Royal Land Corp.
9
(So. Calif. Finance Co.)
Shell Oil Co. (Dougherty)
2220'
Calif. Lds. Inc.
10
L. C Jones
Newhall Land & Farming Co.
Castaic
(J. S. Sepulveda)
SHELL OIL CO.
S. M. (Salisbury)
G. L. (Gorton)
SHELL OIL CO (A. G Smith)
A. G Smith
ST. HELENS PET. CO.
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R. E. HAVENSTRITE
(A. A. Hall)
(C. C. Terrell)
Martinez Chiquita
SHELL (W. S. Boobier)
(C. C. Blair)
(C. C. Blair)
(F. Liebhart)
M. Chamberlain
TIDEWATER ASSOC. (Fee)
SAN FRANCISCO
San Martinez Grande Canyon
DEL VALLE ANTICLINE
(A. J. Chavez)
SHELL OIL CO.
17
16
15
14
13
(E. E. Howard)
(W. R. Barnes)
(Lincoln Pet. Co.)
(E. M. Boobier)
TIDEWATER ASSOC. 5800' (Newhall)
OHIO OIL CO. (Anselma Vasquez)
SUPERIOR N. Pena
PAC. WESTERN OIL CO. (Fee)
20
21
UNIV. CONSOL.
OHIO (Vasquez) SHL
RANCHO
R. E. HAVENSTRITE
Del Valle
Newhall Land & Farming Co.
Continental Oil Co. (Newhall)
SAN MARTINEZ FAULT
LOS ANGELES VENTURA CO. CO.
20
(Newhall Land & Farming Co.)
22
23
24
SANTA CLARA RIVER
Citizens Trust & Sav. Bk.
Potrero Co. Rim Rock
BARNSDALL OIL
28
27
26
29
(Newhall Land & Farming Co.)
NEWHALL-POTRERO FIELD
Approx. Surface trace of Fault
CALIFORNIA OIL WORLD MAP OF DEL VALLE AREA
SCALE
0 1000 3000 5000

You are cordially invited to visit our exhibits

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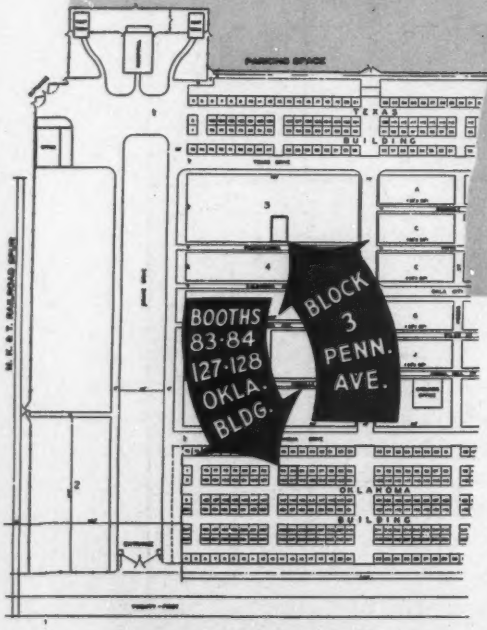

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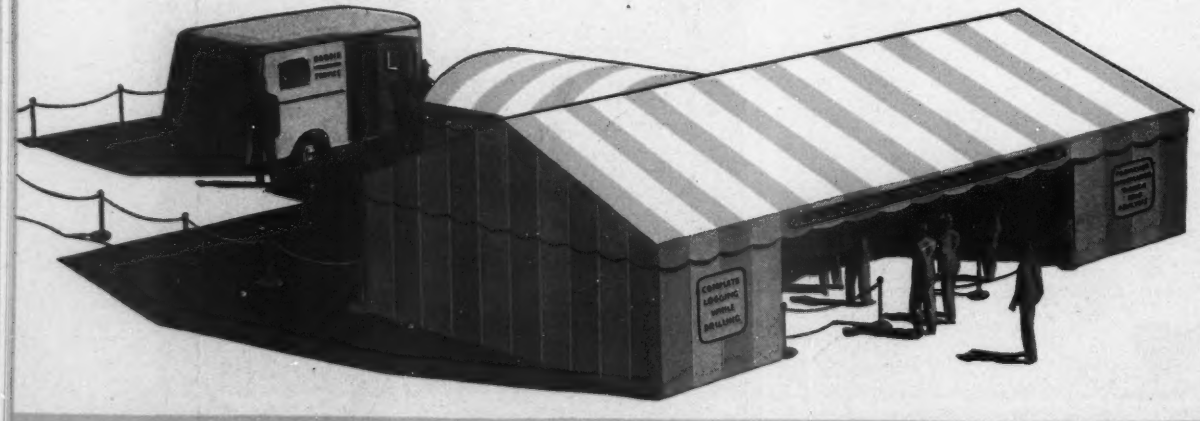

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Left: Moored close by Hancock Oil's Shipyard wells are the famous "Bounty" and other movie ships. Right: Prolific Terminal Zone wells adjoin the drydock of Craig Shipyards at Long Beach.

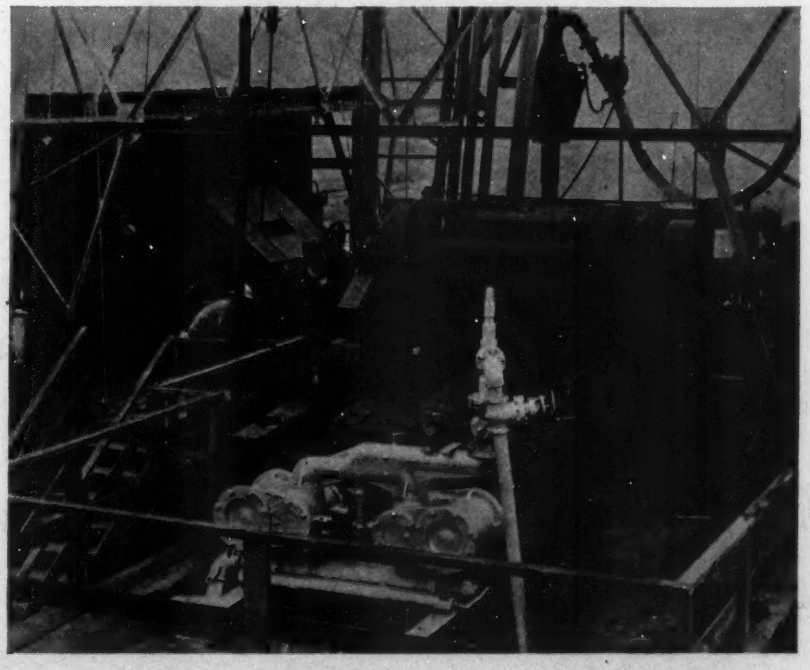
	Maximum Thickness in Feet At Test Location
Recent—Alluvium Thin veneer in floors of canyons and valleys. Not included in section thickness	
Pleistocene—Terrane Deposits. The test location is on an elevated mesa—the remnant of a stream terrace deposit of silts and gravels lying nearly flat and unconformably on an eroded surface of the Saugus formation.	50
Pliocene	
Saugus (Upper Pliocene) ...	300
Pico (Middle Pliocene)	4200
Includes Pico-Repetto Transition	
Repetto (Lower Pliocene)...	2100
Miocene	
Modelo	3000

Total maximum depth in vertical well to top of Miocene, 7500 feet.

The Saugus formation here consists of light buff, tan and brown sands, gravels, and silts for the most part quite unconsolidated but containing occasional layers of hard sandstone, conglomerate, and siltstone. The thickness exposed in the vicinity is 2,000 feet according to Kew in U. S. G. S. Bulletin 753, 1924.

Based on the contact between the Saugus and Pico on the ridge at the north edge of the Newhall-Potrero field and the probable correlation of the fossiliferous sandy marl as uppermost Pico, the probable thickness of Saugus at the test location is only 300 feet.

Considered as Pico formation is the first 4200 ft. underlying the Saugus including 1700 ft. of zones known as the "Pico Repetto Transition" zone. The basal 350 ft. of this transition zone consists of conglomerate and sandstone where exposed just south of the Newhall-Potrero field. Driver tentatively classifies the base of this conglomerate as the top of the Repetto. Thus restricted, the Pico, as noted in surface exposures and in cores from Barnsdall wells in Newhall-Potrero, consists of approximately 4200 ft. of mainly gray silts and shaley siltstones containing numerous very thin limonitic layers, occasional limonitic concretions, and a few sandstone beds. Upper Pliocene megafossils are abundant at the top of the formation and are



Derrick floor view of Richfield's second try on Wheeler Ridge.

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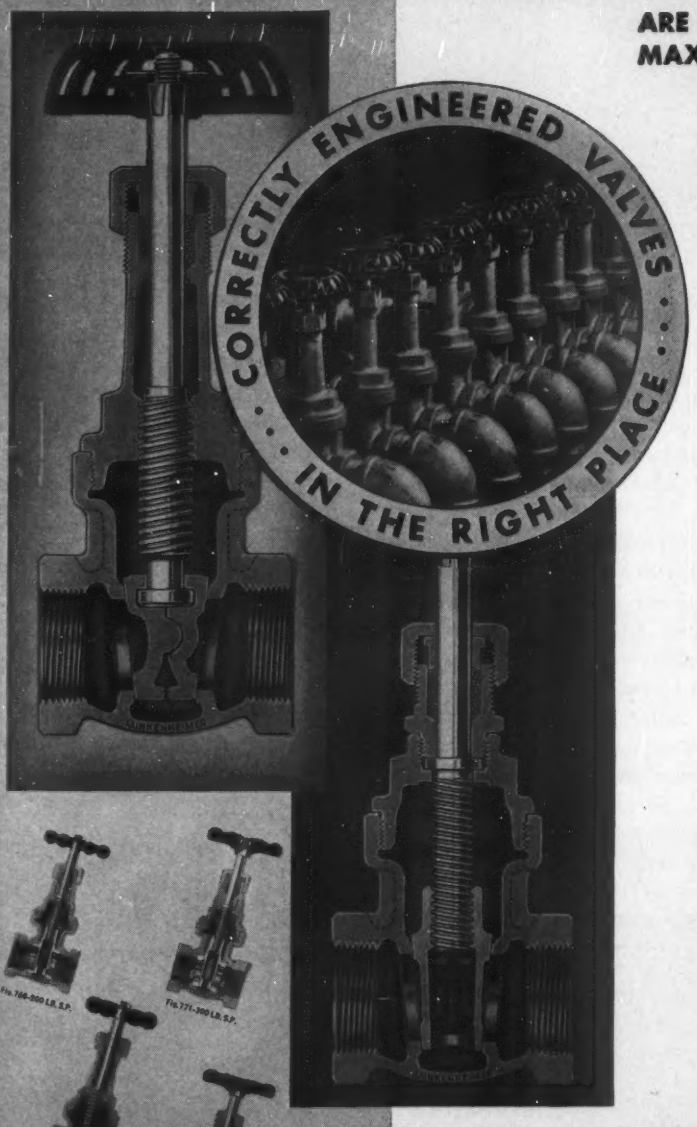

From handwheel to pipe threads, there are at least a dozen places to look for convincing evidence that LUNKENHEIMER BRONZE GATE VALVES first, give you more for your valve buying dollar . . . and then save you more on your valve maintenance dollar. Such features as unusually heavy body and bonnet construction, more powerful and accurately machined stem threads, exceptionally sturdy bonnet collar, extra deep stuffing boxes . . . these all combine to guard against failure at points where experience has shown that trouble is most likely to occur. Being an assembled job, with all units produced on a precision basis, any given part can readily be replaced from stock with full assurance of a perfect fit. Even comparatively small details, like beveled disc guides, to facilitate servicing, and the unique stem seat in bonnet, to permit repacking with valve wide open, play a part in the all-over economy of these quality products. You owe it to the profit side of your ledger to investigate the substantially greater value to be found in this line of "correctly engineered" bronze gate valves.

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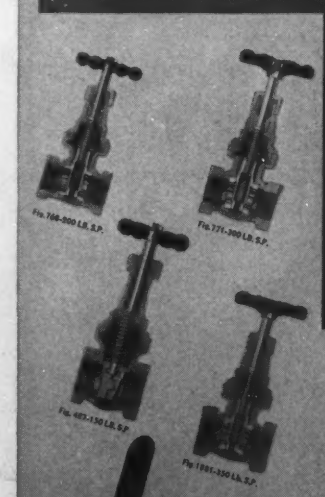

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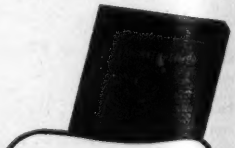

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LUNKENHEIMER

fairly common at intervals throughout. The full thickness of the Pico is not exposed in the Del Valle area, but it is assumed that it is the same as in Newhall-Potrero.

The Repetto consists principally of brown hard siltstone (sandy shale) with a few thin layers of sandstone and in places a basal conglomerate. Its exposed thickness measured from the base of the Pico Repetto Transition zone mentioned above to Kew's Modelo (Miocene) in Pico Canyon is about 2100 ft.

The Modelo formation is probably at least 3000 ft. thick. It consists of brown siltstones and shales alternating with beds of sand which vary from ten to several hundred feet in thickness, often containing dead oil where exposed. It is this Modelo formation, from which the oil is produced in the Newhall-Potrero field, which will be the main objective of the Havenstrite test well. The probable maximum depth to the top of the Modelo at this location is believed to be about 7500 ft.

Structure

Starting at San Martinez Grande Canyon where it is quite broad and flat-topped, here the Del Valle Anticline extends southeasterly for about 3 miles crossing the Santa Clara River south of which it dies out and merges into the northeasterly dipping flank of the Newhall-Potrero structure. The anticline is symmetrical with dips on its flanks averaging from 15 to 20 degrees. Its axis plunges southeasterly about 15 degrees. Its average width is one mile.

The north flank of Del Valle Anticline is terminated by an assymetric easterly plunging syncline called North Syncline which in turn is paralleled on the north by Ramona Anticline and a fault considered by Kew to be the continuation of the San Gabriel Fault. The syncline's axial plane dips 75 degrees northerly. In its westerly part, North Syncline becomes faulted as proven by the fact that although the structural attitudes on its flanks converge along the westerly extension of its axis, yet the beds do not cross that extended axis. This synclinal fault is an important contribution to the closure of Del Valle Anticline.

On the south, the relatively broad Santa Clara Syncline trends along and across the Santa Clara River separating the Del Valle Anticline from the Newhall-Potrero field.

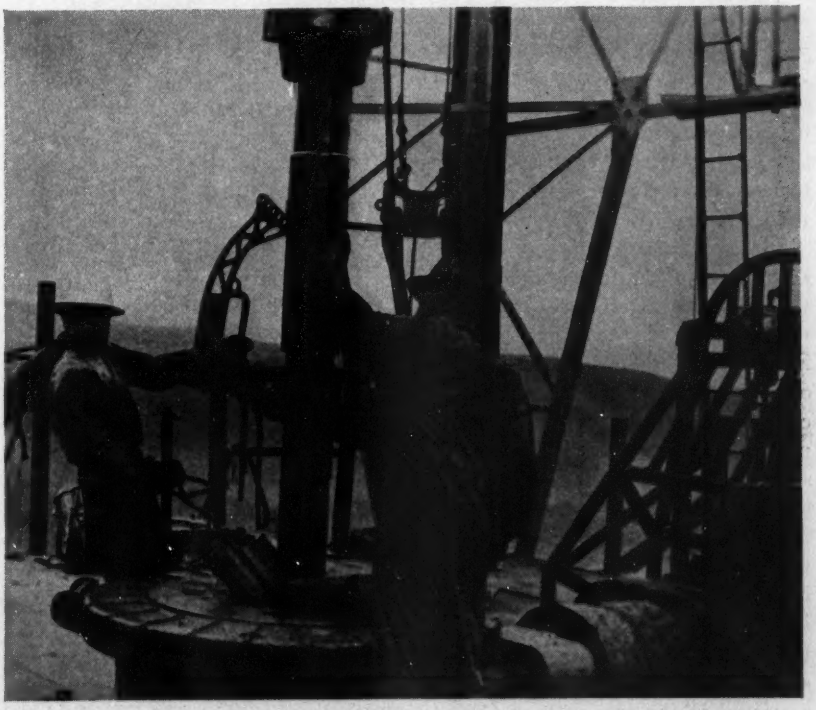
The San Martinez Fault extends northerly up San Martinez Grande Canyon and is probably the northerly projection of a fault definitely located south of Santa Clara River and which is considered to be a continuation of Kew's Salt Canyon Fault. San Martinez Fault is equally as important as Del Valle Anticline for it effects structural closure of the anticline and thereby makes it favorable for the accumulation of oil and gas.

Near the mouth of San Martinez Grande Canyon the fault is positively defined. According to Rankin, foraminifera from shaley siltstones west of the fault are not younger than the Pico Repetto transition zone, whereas on the down throw side there is present a distinctly different formation of gravels and silty sands probably of uppermost Pico age, certainly not older. This indicates a displacement on the fault in excess of 2000 feet, with the upthrown side on the west. In addition, there is structural evidence of the fault in the great variance of strike and dip attitudes.

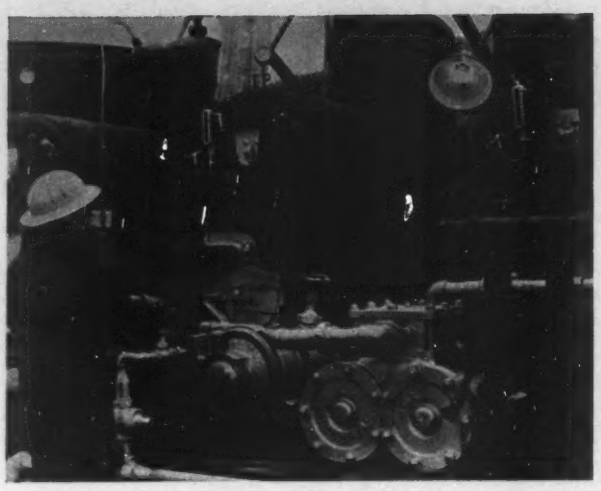
The amount of displacement seems to assure that the fault carries to depth and effectively seals the Modelo beds in the Del Valle Anticline as well as the overlying Repetto and Pico.

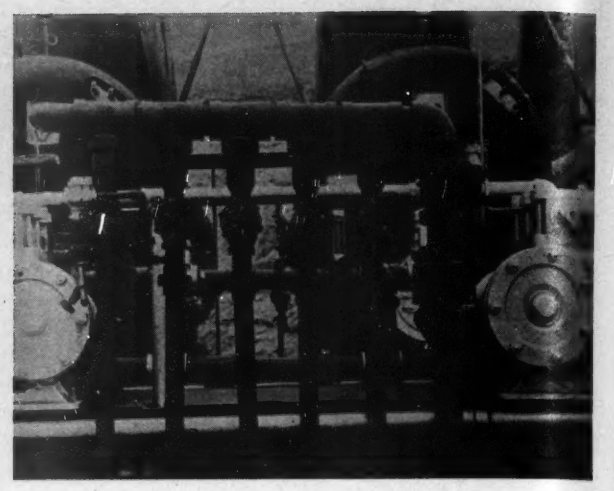
Surface evidence indicates that the plane of San Martinez Fault is probably vertical.

At the approximate junction of San Martinez Fault and the faulted extension of North Syncline, the San Martinez Grande Canyon changes abruptly from a north-south direction to one almost due west. On the south side of and paralleling this westerly trending part of the canyon is a wide zone of slumping, sliding, and erratic dips on the steep northerly slope of an elevated mass of Repetto siltstones and shales. This zone is the



If you are interested in the toughest kind of "going", the second Richfield wildcat on Wheeler Ridge will keep you busy figuring the answers. Wildcat No. 1, a hill or two to the north, proved that there's oil way down below 11,000 ft.





Two more relatively new angles on the Wheeler Ridge wildcat are, left, a new type of steam turbine electric generator, and, right, an over-size manifold on the boiler hookup.

surface evidence of a fault which may be the one drilled through at approximately 4200 ft. in Superior-Pena No. 1 which at that depth supposedly went from Miocene into Saugus.

The top of the Modelo was determined first on a section by carrying it through, from its known point in Barnsdall R. S. F. No. 1 well of the Newhall-Potrero field, in conformity with surface attitudes and those in the well. The horizon was then drawn on two more sections so as to coincide at their points of intersection and so as to conform to surface attitudes. It is assumed that no important structural unconformity exists between the Saugus, Pico, Repetto, or Modelo.

In favor of conservatism as to estimates of depth to the top of the Modelo at the recommended test location, Santa Clara Syncline is considered to be vertical, although on the surface it is quite asymetrical, dipping southward. It is important to note that if this latter s y n c l i n e is considered to be asymetrical, and surface attitudes indicate it to be so, it places the top of the Modelo considerably higher in Del Valle Anticline than if drawn as vertical. The top of the equivalent of the Modelo oil sand of Newhall-Potrero could be expected in the test well at 6150 or 7450 ft. depending on the attitude chosen for Santa Clara Syncline.

A fossil reef bed, exposed in a gully on the south flank of Del Valle Anticline, is practically identical lithologically with a fossil bed south of Santa Clara River at the northwest end of the Newhall-Potrero structure. In both localities the fossils occur in tan and buff clayey silt interbedded with thin layers of irregular and ripple-marked sandy limestone marl. Although none of the fossils collected proved to be an index, they were classified by Dr. U. S. Grant III as probably uppermost Pico. They were identified as:

Dendraster venturdensis Kew
Fusinus—sp.?
Ostrea vespertina Conrad?
Pecten bellus (Conrad) var. hemphilli Dall.
Pecten stearnsii Dall.
Saxidonus nuttelli Conrad?

Inasmuch as these fossils could all properly occur in the same stratigraphic horizon and because the lithology of their localities is so similar, I believe they should be correlated in the same stratigraphic lines. This correlation agrees with the general structural conditions.

In 1924 and 1925 Associated Oil Company drilled its Newhall No. 1 well in Section 15, Township 4 North, Range 17 West, on property leased from the Newhall Land and Farming Company. Although located on the axis of Del Valle Anticline as high structurally on it as possible and still be on the leased land, the well was 1500 ft. structurally lower than the test location herein recommended, and in drilling to a total depth of 5800 ft. failed to reach the Miocene, the principal and most favorable oil objective in the structure. (See Map). Consequently the Associated well was an entirely inadequate test of the Del Valle Anticline, although it should be remembered that at the time it was drilled geologists in general looked with disfavor upon the Miocene formation as a prospective one for oil. No other than the Associated test has been drilled on Del Valle Anticline.

Superior Oil Company, in 1928, drilled Pena No. 1 in Section 18, Township 4 North, Range 17 West. The well was abandoned at a total depth of 5128 ft. after going through a fault in the vicinity of 4200 ft. This well was located approximately 1¼ miles westerly of the test drilled by Continental Oil Company in section 20.

In May 1937, Barnsdall Oil Company discovered the Newhall-Potrero Field two miles south of Del Valle Anticline by completing its Rancho San Francisco (R.S.F.) No. 1 at a total depth of 6472 ft. for an initial potential production of 500 barrels per day of 35 gravity oil from 300 feet of the top part of the Modelo (Miocene). R. S. F. No. 2 was completed February 6, 1938, for 1200 barrels daily potential, 32.6

gravity oil, from a zone 6375 to 6713, whereas R. S. F. No. 3, taking in 900 ft. of zone from 6242 to 7100 ft. produced 1769 barrels of 35.5 gravity oil in the first 24 hour gauge July 17, 1938. This well had about 500 ft. of oil sand in the zone open to production and includes the equivalent of the R. S. F. 1 zone and the R. S. F. 2 zone and about 500 ft. of additional zone. R. S. F. 3 and all subsequent wells are considered capable of making 5000 barrels daily under good operating procedure but are now curtailed in accordance with State curtailment regulations. R. S. F. No. 3 is producing from 900 ft. of uppermost Modelo of which 500 ft. is oil sand and which includes the equivalent of the original zones of No. 1 and No. 2 wells, both of which have been deepened below 7000 ft.

The Shell Oil Company, in May and June, 1938, drilled Daugherty No. 1 to a total depth of 2220 ft. The well cored a fault at 2068 at which point it reportedly went from Pico into probable Saugus, the latter being sands and gravels with reddish and greenish coloration. Drilling was with a portable rotary, and after circulating with oil and recovering the drill pipe which had become stuck while drilling at 2220, the well was abandoned. No subsequent test has been drilled by the Shell Company which, however, still holds leases in this area. The well was located in Section 9, 4-17.

The Continental Oil Company's well located one-half mile west of San Martinez Grande Canyon drilled to 2616 ft. to test a structure separated from Del Valle Anticline by San Martinez Fault. This well is located on the surface at an estimated 800 ft. or so below the top of the Repetto.

Conclusion

The Del Valle Anticline is closed against San Martinez Fault and the faulted westerly part of North Syncline. The Pico, Repetto, and Modelo formations are unquestionably present in the structure. The Repetto siltstones and shales exposed immediately west of San Martinez Fault are practically identical with those of the Repetto in the Newhall-Potrero oil field. The Modelo, which produces oil in that field, undoubtedly is similar in character in the Del Valle structure.

The Del Valle Anticline therefore offers excellent prospects for profitable production of oil from the Modelo formation, the top of which at the test location should not exceed 7500 feet.

Argentina To Exhibit At International in Tulsa

The Argentine government is sending an exhibit for the 1940 International Petroleum Exposition opening in Tulsa May 18, according to word received by Wm. B. Way, general manager.

The display will show important facts about petroleum resources in Argentina, Way stated, and the display is being sent by the geological department of that government.

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HARD WATER is the source of more headaches among drillers than heaving shales, water intrusion or loss of circulation. Sustained drilling operations are virtually impossible with hard boiler feed water. It means frequent shut-downs and usually expensive replacements.

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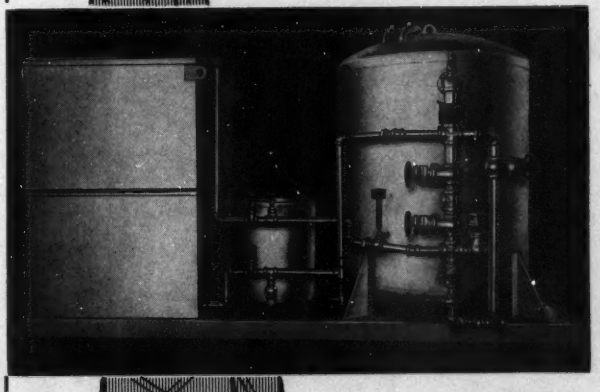

Typical Refinite Water Softener installation showing exclusive "salt saver" regeneration unit at left. Complete unit moved easily on skids. Often saves its initial cost on a single drilling operation. Write for FREE Water Analysis and FREE DEMONSTRATION.

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According to Dr. George H. Mount, the Los Angeles Psychologist who conducted a series of "Traffic Nerves" tests recently, poor motor performance is one of the commonest causes of "Traffic Nerves." He found that faulty pick-up in a tight spot, for instance, may shoot your pulse as high as 50% above normal; that stalling in traffic flustered almost every driver tested so badly that his pulse went up about 40%.

Poor performance, obviously, isn't the only irritant that causes "Traffic Nerves." But when Doctors tell us that "Traffic Nerves" is a real drain on our nervous systems...that it wastes more energy than any of us realize...every irritant that we can eliminate is worth the effort, for it makes driving just that much more fun.

Here is a suggestion: You can improve the performance of your automobile—and eliminate one of the commonest causes of "Traffic Nerves"—by using NEW 76 gasoline. For NEW 76 gasoline *is designed especially for traffic.*

NEW 76 meets *all* the requirements of traffic, instead of just a few—makes your car more *responsive*, easier to handle. Try a tankful tomorrow. See if it doesn't help you reduce "Traffic Nerves."

2. *By Eliminating those Unnecessary Irritants that Doctors Find Cause Nervous Strain*

Some of the irritants that cause "Traffic Nerves" can't be eliminated. But many of them *can*. The Union Oil Traffic Clinic, founded as a result of Dr. Mount's research, has been conducting all kinds of experiments on this subject.

The clinic has made studies on ventilation, posture, noise, timing of signals and many other factors that contribute to "Traffic Nerves."

All of these findings have been published in the free 32 page booklet illustrated below. You can get one without obligation at your neighborhood Union Oil station.

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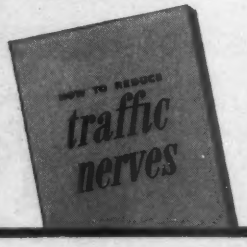

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UNION OIL COMPANY

1890, INDEPENDENT—1940, STILL INDEPENDENT

Potential Factor Overshadows Depth Factor

In Proposed Curtailment Formula

One of the first problems facing the newly-elected Central Committee will be a decision as to whether to accept the modification of the curtailment formula proposed by the Allocation Committee at the April meeting. The modified formula, if adopted, will give greater weight to the potential factor and less weight to the depth factor in allocation of production to individual wells, hence will redistribute the total state allotment, which is not expected to increase over the present level of approximately 592,000 B/D.

In presenting the plan to the Central Committee, the Allocation Committee stated:

"The plan which is herein presented has been carefully considered by the Allocation Committee and is hereby recommended to the Central Committee for their study and discussion at the next regular meeting. This is presented as a plan to be worked toward for the remainder of 1940 and the principles involved are recommended as a guide for allocation procedure. It should be pointed out that because of the many variable factors such as potential decline, new wells to be drilled, and demand, it is not possible to determine exactly what the allocation formula will be on January 1, 1941. It is merely the desire of the Committee to recommend these principles as a general plan of procedure recognizing that the timing of the various formula reductions must be contingent upon conditions."

The plan has three parts:

1. **A gradual reduction in the minimum depth allotment.** The present minimum allows 5 B/D for the first 1000 ft., plus an additional barrel for each succeeding 1000 ft., that is: 5 B/D for the first 1000, plus 6 B/D for the second 1000, plus 7 B/D for the third 1000, etc. Based on present factors—potential decline, rate of drilling, potential of new completions, and total demand—but subject to modification with changes in those factors, the new plan contemplates reduction of the depth minimum, over a period of nine months to a year, by changing the allotment to 5 B/D for the first 1000 ft., plus an additional three-quarters barrel for each succeeding 1000 ft., or 5 B/D for the first 1000, plus 5¾ for the second 1000, plus 6½ for the third 1000, etc. Thus the minimum depth allotment for a 3000-ft. well under the new program, if conditions do not materially

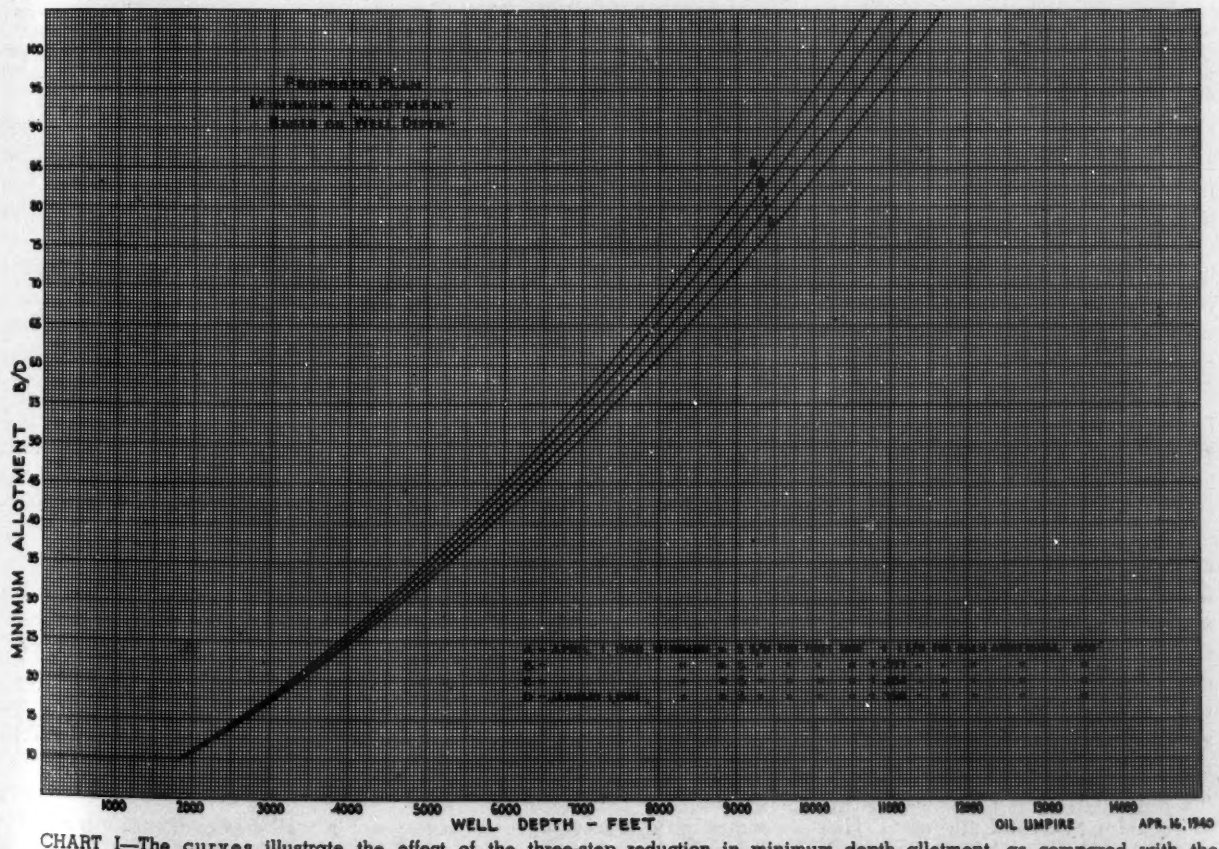

CHART I—The curves illustrate the effect of the three-step reduction in minimum depth allotment, as compared with the present formula. For example, at present, a 9300-ft. well receives an 85-B/D minimum depth allotment; under the new formula, a 9300-ft. well will receive minimum depth allotments of 81 B/D; 78.5 B/D; and, by January 1, 1941, 75 B/D. The latter date, however, is not final. Changed conditions would alter it, but would not change the principles of the proposed modification.

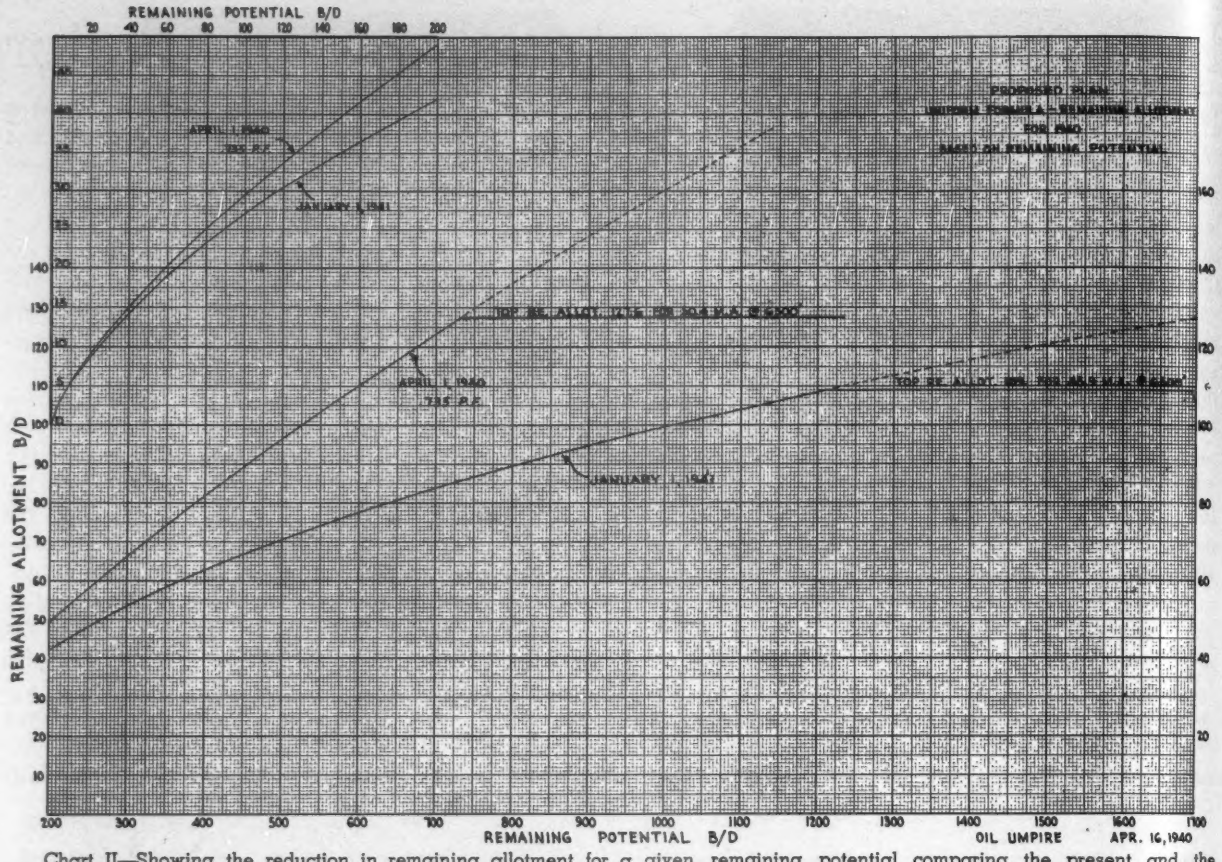

Chart II—Showing the reduction in remaining allotment for a given remaining potential comparing the present and the proposed formulas. The January date is not final, but is based on the assumption that conditions will remain approximately as at present, or as estimates indicate that they will be in coming months. Compare with Table II.

change, would be 17¼ B/D on January 1, 1941, compared with the present 18 B/D. Reduction of the depth minimum increases with increasing depth; a 10,000-ft. well will have its minimum depth allowable reduced by 11.2 B/D. The change would be made in three equal steps, either every third month or every fourth month, shown in the accompanying Table I and Chart I, which are based on present conditions, but are only indicative as to the exact results for the future.

2. A reduction in the remaining allotment by changes in the power factor. Since the remaining allotment is determined by mutiplying the difference between the minimum depth allotment and the well's total potential by the power factor, a reduction in the power factor will result in a reduction of the remaining allotment, hence will also result in reducing the total allotment. Under the proposed plan, and under present conditions, wells with less than 12 B/D remaining potential will not be affected, but the effect becomes progressively greater with higher remaining potentials. The result is to increase the necessary potential for top allotments at normal depths, and to cut the remaining allotment of the upper intermediate and lower top groups of wells, with a lesser reduction to the lower intermediate wells. Estimated effects of the changes are shown in Table II and Chart II, which compare the April, 1940, formula with the estimate for January, 1941, under the proposed plan.

3. Continuation of the reductions in top allotment. Because of the changes above, however, these reductions will not be as severe as they have been in the past, the top estimated for January, 1941, being 155 B/D, compared with an estimated 135 B/D if the present plan were continued without change.

When all three features of the proposed formula are in full effect, in January, 1941, or later, if conditions change, it will be necessary for a well to demonstrate a considerably higher potential if it is to qualify as a top well. It follows,

As we go to press comes the announcement that J. R. (Bill) Pemberton, Oil Umpire, is retiring from office May 15 in order to effectuate an economy move which combines the duties of oil umpire and chairman of the Central Committee of California Petroleum Producers.

Chairman Lawrence Vander Leck will carry on in both capacities. Maurice Machris has been elected first vice-president, and Lloyd Williamson, second vice-president. Bettye Bohanan was re-elected secretary.

Members at large of the Central Committee were elected as follows: R. P. Huggins of Western Gulf, for the entire State; Richard Fenton, to represent the stripper wells; John Sutherland of Ohio Oil, for the coastal district; E. E. Pyles, for the Los Angeles Basin; Emil Kluthe, for the San Joaquin Valley.

Lawrence Vander Leck will assume his duties on May 15 as chairman of the Central Committee and oil umpire.

TABLE I
MINIMUM ALLOTMENTS

Depth	Minimum April 1, 1940	Proposed Minimum Allotment		
	"A"	"B"	"C"	"D"
2000	11.0	10.9	10.8	10.8
2500	14.4	14.2	14.1	13.9
3000	18.0	17.8	17.5	17.3
3500	21.9	21.5	21.2	20.8
4000	26.0	25.5	25.0	24.5
4500	30.4	29.7	29.1	28.4
5000	35.0	34.2	33.3	32.5
5500	39.9	38.9	37.8	36.8
6000	45.0	43.8	42.5	41.3
6500	50.4	48.9	47.4	45.9
7000	56.0	54.3	52.5	50.8
7500	61.9	59.9	57.8	56.0
8000	68.0	65.7	63.4	61.0
8500	74.4	71.7	69.1	66.4
9000	81.0	78.0	75.0	72.0
9500	87.9	84.5	81.2	77.8
10000	95.0	91.3	87.5	83.8
10500	102.4	98.2	94.1	89.9
11000	110.0	105.4	100.9	96.3
11500	117.9	112.9	107.9	102.8
12000	126.0	120.5	115.0	109.5

A—April 1, 1940 Minimum =5 B/D for first 1000' + 1 B/D for each additional 1000' (cumulative).
B— Minimum =5 B/D for first 1000' + .917 for each additional 1000' (cumulative).
C— Minimum =5 B/D for first 1000' + .834 for each additional 1000' (cumulative).
D— Minimum =5 B/D for first 1000' + .750 for each additional 1000' (cumulative).

TABLE II—ALLOCATION
PROPOSED PLAN FOR 1940
REMAINING POTENTIAL AND ALLOTMENT

Remaining Potential	Remaining Allotment April 1, 1940 Power Factor .735 p.f.	Remaining Allotment January 1, 1940
5	3.3	3.3*
10	5.4	5.4*
15	7.3	7.1
20	9.0	8.6
25	10.7	10.2
30	12.2	11.5
35	13.7	12.9
40	15.1	14.2
45	16.4	15.4
50	17.7	16.7
60	20.3	19.0
70	22.7	21.1
80	25.1	23.3
90	27.3	25.2
100	29.5	27.1
110	31.7	28.8
120	33.8	30.5
130	35.8	32.1
140	37.8	33.7
150	39.8	35.1
160	41.7	36.6
170	43.6	38.0
180	45.5	39.4
190	47.3	40.7
200	49.1	42.0
220	52.7	44.6
240	56.2	47.0
260	59.6	49.1
280	62.9	51.3
300	66.2	53.5
320	69.4	55.4
340	72.5	57.3
360	75.7	59.2
380	78.7	60.9
400	81.8	62.7
450	89.2	66.9
500	96.3	70.8
550	103.3	74.1
600	110.1	77.6
650	116.8	80.8
750	123.4	84.0
750	129.8	86.8
800	136.1	89.5
850	142.0	92.1
900	148.4	95.0
950	154.4	97.3
1000	160.3	99.5
1100	171.9	104.0
1200	....	108.5
1300	....	112.7
1400	....	116.7
1500	....	120.5
1600	....	124.0
1800	....	130.6
2000	....	136.8
2200	....	142.6
2300	....	145.3
Top Producible Allotment	182	155

*—.735 Power Factor.

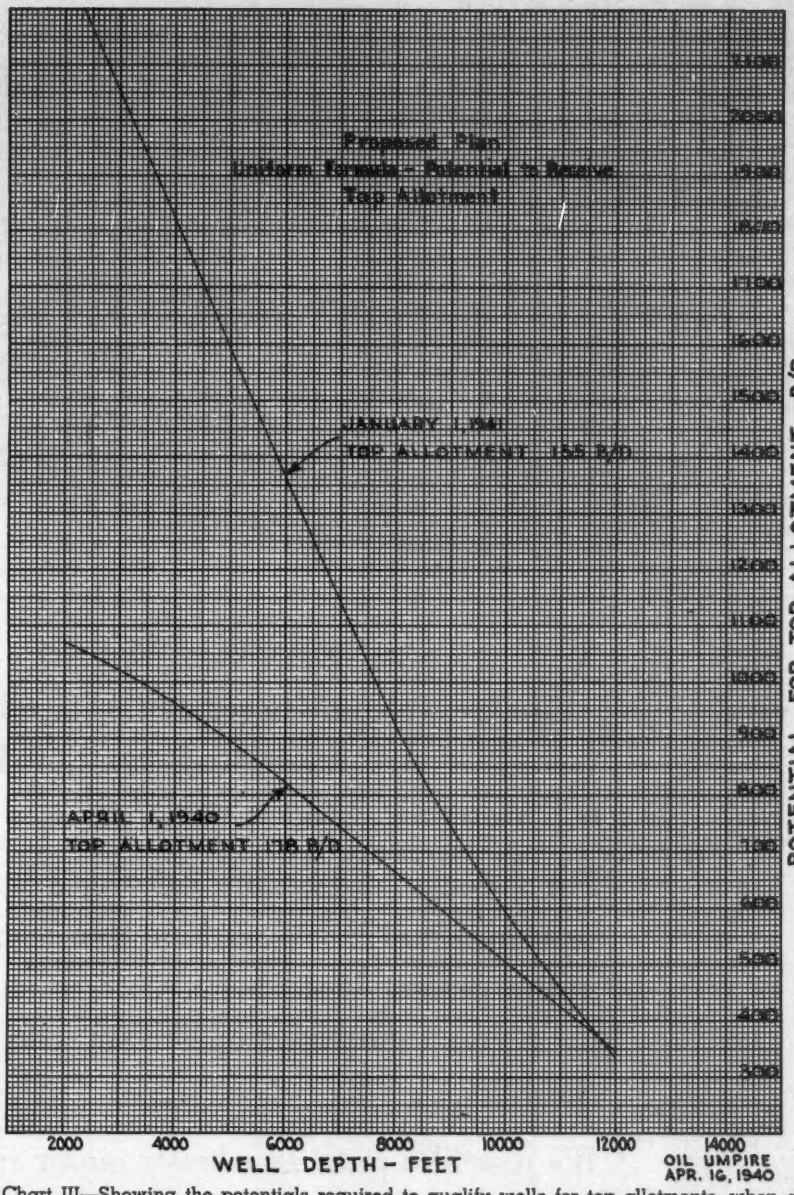

Chart III—Showing the potentials required to qualify wells for top allotments, when all three features of the proposed plan are in full effect. Note that the potential for top allotment at 3000 ft. now is 1020 B/D; under the proposed formula it will be 2050 B/D at whatever date the modified formula is in effect and if at that time conditions actually are as present estimates indicate they will be.

therefore, that the number of top wells will be reduced, and that more of the total state allowable will be distributed on the basis of potential rather than depth. Chart III, also based on present conditions, with future conditions estimated, shows that the potential required for a top allotment at 3000 ft. increases from 1020 B/D, under the formula in use for April, to 2050 B/D under the proposed formula at whatever date it becomes fully effective, but not before January 1, 1941. Likewise, at 10,000 ft., a 600-B/D potential will be required for top allotment, compared with the present 500-B/D.

Table III combines all factors of the allocation formula. The table is similar to the allocation tables issued monthly with the regular allocation schedules, and shows the April allotments compared with the estimated January, 1941, allotments under the proposed plan, at certain depths.

Discussion at the Central Committee meeting for April, at which

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the state allowable for the present month was set at not to exceed 592,000 barrels, brought out the point that the plan is in effect a redistribution of the state's total allowable, which is not expected to be increased beyond the present level, and that all figures and schedules projected are merely illustrative of the results under the modified formula. It is estimated that new completions will require 12,000 B/D of new allotment per month, however, if completions require less oil the time element would be altered but the principle upon which the formula is based would not.

Continuation of the present method, in which the Allocation Committee is limited to changes in but two factors—power factor and maximum allotment—would, it was pointed out, result in continually increasing inequities in curtailment, since at present no change is possible in the depth minimum. It was also pointed out that, under the proposed formula, wells in the top, intermediate, and lower potential brackets, would each contribute equally to the additional curtailment.

The minimum allowable of 10 B/D for marginal or stripper wells will not be affected, and the over-all effect is to place the burden of curtailment on those wells which have sufficient potential to be able to bear it, without unduly penalizing any one class of well.

The Allocation Committee letter to the Central Committee outlined the reasons for the proposed change. In part, the letter said:

"For the past several months the Allocation Committee has had under consideration a plan for the progressive reduction in the uniform allocation formula made necessary by the continued completion of new wells. As you know, during the past 11 months the oil obtained from potential decline has not been sufficient to accommodate new completions. As a result, there have been periodic reductions in both the power factor and the top allotment; namely, the power factor has been reduced from .76 to .735, while the

TABLE III—ALLOCATION
PROPOSED PLAN FOR 1940
ALLOTMENT ACCORDING TO DEPTH

Potential	2000′ †April 1, 1940 .735 p.f.	2000′ Jan. 1, 1941	4000′ †April 1, 1940 .735 p.f.	4000′ Jan. 1, 1941	6000′ †April 1, 1940 .735 p.f.	6000′ Jan. 1, 1941	7000′ April 1, 1940 .735 p.f.	7000′ Jan. 1, 1941	8000′ †April 1 1940 .735 p.f.	8000′ Jan. 1, 1941	10000′ †April 1, 1940 .735 p.f.	10000′ Jan. 1, 1941	Potential
5	5*	5*	5*	5*	5*	5*	5*	5*	5*	5*	5*	5*	5
10	10*	10*	10*	10*	10*	10*	10*	10*	10*	10*	10*	10*	10
15	13.8	13.7	15*	15*	15*	15*	15*	15*	15*	15*	15*	15*	15
20	16.0	15.8	20*	20*	20*	20*	20*	20*	20*	20*	20*	20*	20
25	18.0	17.5	25*	25*	25*	25*	25*	25*	25*	25*	25*	25*	25
30	19.7	19.1	28.8	28.0	30*	30*	30*	30*	30*	30*	30*	30*	30
35	21.3	20.6	31.0	29.9	35*	35*	35*	35*	35*	35*	35*	35*	35
40	22.9	22.0	33.0	31.7	40*	40*	40*	40*	40*	40*	40*	40*	40
45	24.4	23.4	34.7	33.2	45*	43.7	45*	45*	45*	45*	45*	45*	45
50	25.8	24.7	36.3	34.7	48.3	46.2	50*	50*	50*	50*	50*	50*	50
60	28.5	27.2	39.4	37.6	52.3	49.5	58.8	55.8	60*	60*	60*	60*	60
70	31.0	29.5	42.2	40.0	55.7	52.4	63.0	59.2	69.7	66.0	70*	70*	70
80	33.5	31.8	44.7	42.5	58.7	55.0	66.3	62.1	74.2	69.4	80*	80*	80
90	35.9	33.9	47.3	44.7	61.4	57.4	69.4	64.7	77.7	72.3	90*	87.7	90
100	38.1	35.8	49.7	46.9	64.0	59.8	72.2	67.2	80.8	74.8	98.3	91.2	100
110	40.3	37.7	52.0	48.9	66.5	62.0	74.7	69.5	83.6	77.3	102.3	94.2	110
120	42.5	39.5	54.2	50.8	68.9	64.1	77.3	71.7	86.2	79.6	105.7	97.0	120
130	44.6	41.2	56.4	52.5	71.2	66.2	79.7	73.8	88.8	81.9	108.7	99.4	130
140	46.6	42.8	58.5	54.3	73.4	68.0	82.0	75.8	91.2	84.0	111.4	101.8	140
150	48.6	44.3	60.6	55.9	75.6	69.8	84.2	77.1	93.5	86..	114.0	104.1	150
160	50.6	45.9	62.6	57.5	77.7	71.5	86.4	79.5	95.7	87.9	116.5	106.3	160
170	52.5	47.3	64.6	59.0	79.8	73.2	88.5	81.1	97.9	89.6	118.9	108.3	170
180	54.4	48.7	66.5	60.4	81.8	74.8	90.6	82.8	100.0	91.3	121.2	110.2	180
190	56.3	50.1	68.5	61.9	83.8	76.3	92.6	84.3	102.2	93.0	123.4	111.9	190
200	58.1	51.3	70.3	63.2	85.7	77.7	94.6	85.8	104.2	94.5	125.6	113.7	200
220	61.7	53.8	74.0	65.9	89.5	80.5	98.5	88.7	108.2	97.5	129.8	116.8	220
240	65.2	56.3	77.6	68.5	93.2	83.1	101.2	91.4	112.0	100.2	133.8	119.9	240
260	68.8	58.7	81.1	70.7	96.8	85.6	105.8	93.8	115.7	102.8	137.7	122.6	260
280	72.1	60.9	84.5	73.3	100.3	88.0	109.4	96.3	119.3	105.4	141.4	125.3	280
300	75.4	63.1	87.9	75.6	103.7	90.3	112.8	98.7	122.8	107.8	145.0	127.8	300
320	78.6	65.1	91.2	77.6	107.1	92.4	116.2	100.9	126.2	110.0	148.6	130.0	320
340	81.8	67.1	94.4	79.6	110.4	94.5	119.5	103.0	129.6	112.2	152.0	132.6	340
360	84.9	68.9	97.6	81.6	113.6	96.5	122.8	105.1	132.9	114.2	155.4	134.8	360
380	88.0	70.8	100.7	83.5	116.8	98.4	126.0	107.0	136.1	116.2	158.7	136.9	380
400	91.1	72.7	103.8	85.1	119.9	100.2	129.1	108.9	139.3	118.1	162.0	138.8	400
450	98.6	76.8	111.3	89.5	127.5	104.6	136.8	113.4	147.0	122.6	169.9	143.7	450
500	105.8	80.7	118.6	93.5	134.9	108.6	144.3	117.6	154.5	126.8	178.0	147.9	500
550	112.8	84.2	125.7	97.0	142.0	112.4	151.5	121.3	161.8	130.7	.....	151.8	550
600	119.7	87.7	132.7	100.5	149.0	116.0	158.4	124.9	168.8	134.3	.....	155.0	600
650	126.3	90.9	139.4	103.7	155.8	119.3	165.5	128.1	175.7	137.7	.....	.....	650
700	133.0	93.9	146.0	107.0	162.5	122.5	172.0	131.6	178.0	141.0	.....	.....	700
750	139.4	96.9	152.4	110.0	169.0	125.5	178.0	134.7	.....	144.1	.....	.....	750
800	145.7	99.8	158.8	112.8	175.4	128.5	.....	137.7	.....	147.0	.....	.....	800
850	151.9	102.6	165.1	115.5	178.0	131.2	.....	140.2	.....	149.9	.....	.....	850
900	158.1	104.9	171.5	118.3	.....	133.9	.....	142.9	.....	152.6	.....	.....	900
950	164.1	107.6	177.3	120.5	.....	136.5	.....	145.6	.....	155.0	.....	.....	950
1000	170.1	109.8	178.0	122.8	.....	139.0	.....	147.9	.....	.....	.....	.....	1000
1100	178.0	114.2	.....	127.4	.....	143.7	.....	152.4	.....	.....	.....	.....	1100
1200	.....	118.7	.....	131.6	.....	148.1	.....	155.0	.....	.....	.....	.....	1200
1300	.....	123.0	.....	136.2	.....	152.3	.....	.....	.....	.....	.....	.....	
1400	.....	127.0	.....	140.1	.....	155.0	.....	.....	.....	.....	.....	.....	
1500	.....	130.7	.....	143.9	.....	.....	.....	.....	.....	.....	.....	.....	
1600	.....	134.3	.....	147.4	.....	.....	.....	.....	.....	.....	.....	.....	
1700	.....	137.7	.....	150.9	.....	.....	.....	.....	.....	.....	.....	.....	
1800	.....	141.0	.....	154.2	.....	.....	.....	.....	.....	.....	.....	.....	
1900	.....	144.1	.....	155.0	.....	.....	.....	.....	.....	.....	.....	.....	
2000	.....	147.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
2100	.....	150.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
2200	.....	153.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
2300	.....	155.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	

†—Used for April Schedule.
*—Exempt.

top allotment has been cut from 250 to 178 B/D.

"Another feature which has been characteristic of the method has been the amount of potential required to receive the top allotment. This has also been reduced so that for the month of April a well 10,000 ft. deep with a potential of 583 B/D received a top allotment; whereas, in June 1939 a potential of 855 B/D was required. Likewise, at 6,000 ft. an 817-barrel well received top allotment in April compared to 1,145 B/D required in June, 1939. It is estimated that the present method of reducing the power factor and the top allotment, if continued to January 1; 1941, would give top allotment to a well of 250 B/D potential at 10,000 ft., and to a 6,000-foot well with 520 B/D potential. Thus the continuation of the system now in effect will give less weight to the potential, gradually approaching a flat minimum allotment for all wells. It is the consensus of the Allocation Committee that additional weight should be given to potentials."

The proposed modification in the formula was recommended for favorable consideration of the new Central Committee by the Central Committee for 1939-1940.

Nomad Plans For Oil Show

The International Delegates and foreign visitors to the International Oil Exposition, May 18 to 25, will be the special guests of the Nomads. The members of the Houston, Tulsa, Los Angeles, and New York Chapters will collaborate with the Exposition management to provide special attractions and accommodations for all foreign visitors.

The Los Angeles Chapter of the Nomads will be headed by Ted Sutter of Baker Oil Tools, Inc., as chairman and George S. MacDonell, California Oil World as co-chairman. The following Los Angeles Chapter members of the Nomads will serve on the committees handling registration, entertainment, and transportation:

W. F. Bettis, M. O. Johnston Oil Field Serv. Corp.; Earl Daniels, Hydril Co.; E. L. Decker, Martin-Decker Corp.; W. R. Martin, Martin-Decker Corp.; G. Waldo Moore, The Cavins Co.; Tom Murphy, Martin-Decker Corp.; F. C. Ripley, Jr., Emsco Derrick & Equip. Co.; J. B. Shaw, Grant Oil Tool Co.; Elmer R. Smith, Lane-Wells Co.; Earl Atkins, Chiksan Tool Co., and Henry Pullman, Baker Oil Tools, Inc.

Ted Sutter

George MacDonell

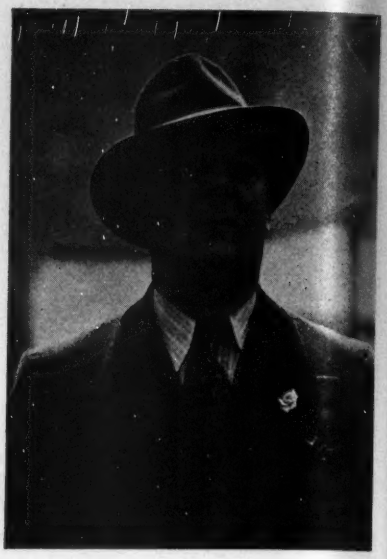
Alternates: R. Carlton Baker, Jr., Baker Oil Tools, Inc.; J. C. Ballagh, Patterson-Ballagh Corp.; L. Norman Dorn, Lane-Wells Co.; M. O. Johnston, M. O. Johnston Oil Field Serv. Corp.; M. E. Montrose, Lane-Wells Co.; Roland E. Smith, Grant Oil Tool Co.; Walter Smith, E. M. Smith Co.; George W. Walton, Emsco Derrick & Equip. Co.

The Highlight of the Nomads' activities will be a dinner held at the Tulsa Club, Tuesday night, May 21.

Sale by Mexico to Japan of $3,000,000 worth of petroleum and petroleum products is reported from Mexico City.

Joe Herron Appointed Wire Rope Representative

An announcement has just been made by George B. Gemmill, vice president of Wire Rope Manufacturing & Equipment Co. of Seattle, Wash., of the appointment of Joseph A. Herron, as special oil field representative for the company.



Joe Herron

Joe Herron will assist the distributors of the Double Blue Line, Hopper Machine Works, Inc., of Bakersfield, and The California Wire Cloth Corp. of Los Angeles, in sales and service to the California oil industry..

The many friends of Joe Herron will be pleased to learn that he is now associated with Wire Rope Manufacturing & Equipment Co., and will wish him success in this new undertaking.

Joe wants to advise the industry that complete stocks are maintained in Los Angeles, Bakersfield and San Francisco, not only for oil field use, but for industrial use also and that he can be reached through the offices of The California Wire Cloth Corp., 739 East 60th St., Los Angeles, telephone ADams 3255.

C. S. Lincoln Appointed To A.P.I. Lub. Committee

C. S. Lincoln, Standard Oil Co. of California, San Francisco, and George F. MacDonald, Richfield Oil Corp. of N. Y., New York, have been appointed to the American Petroleum Institute's Division of Marketing Lubrication Committee, bringing to 26 the total membership of the committee, according to D. V. Stroop, secretary of the division. William H. Correa, Socony-Vacuum Oil Co., Inc., New York, is chairman of the committee, and R. A. Ludlow is director.

J. W. Southworth

Shell Consolidates So. California Marketing

Consolidation of the Los Angeles and Southern California marketing divisions of Shell Oil Co., Inc., has been announced. The consolidation was said to be possible because of the similarity of the operations in both territories.

J. W. Southworth, manager of the Southern California division, will be in charge of the combined territories and his title will be the same as heretofore.

E. R. Raphael, who has been manager of the Los Angeles division, becomes manager of Shell's Seattle division.

Mr. Southworth's executive staff in Los Angeles will consist of F. W. Hatch, wholesale sales manager; E. J. Griffin, retail sales manager; W. T. Shaw, operations manager, and H. J. Brown, office manager.

Sees Houston Hub of Security Activities

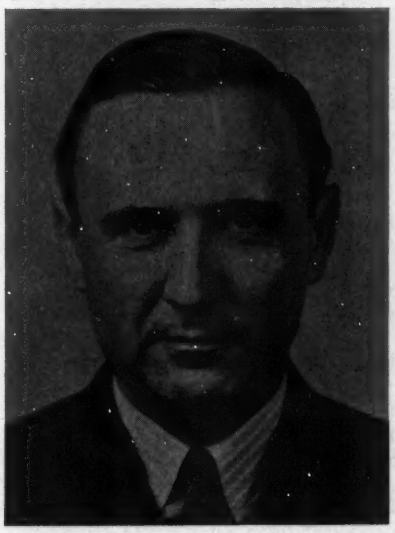
Chosen as the strategic point from which to reach all markets for Security equipment, E. W. Forrow, vice-president of Security Engineering Co., Inc., has selected Houston for his home.

Security's rapidly expanding market during the past six years has led to the establishing of eight Sales Districts. The Gulf Coast Headquarters at Houston was established in September, 1938. Houston now has become not only the geographic center for Mr. Forrow's extensive travels throughout the company's domestic market, but Houston's waterway offers its added convenience of access to South American markets for the shipment of Security products. The company has recently installed new equipment in the

E. J. Griffin

Houston plant for the manufacture of drillable wire-wrapped screen.

Mr. Forrow returned late in April from an extensive two months' trip to South



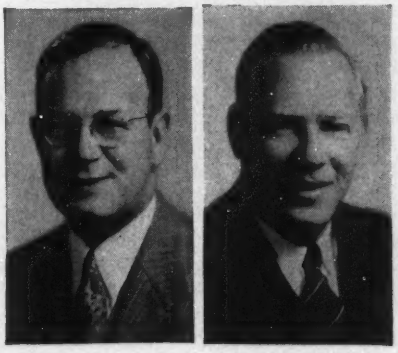
E. W. Forrow

American oil fields, during which he visited oil companies in Trinidad, Eastern and Western Venezuela, and Colombia. Return was made via Panama, Guatemala, and Mexico City.

Oil Men's Jewelers Consolidate Firms

George G. Voege, who has been connected with the Wholesale Jewelry business in Los Angeles since 1923, and Charles Remer, formerly of Kansas City, Mo., have consolidated their interests and will be known hereafter as the Charles Remer Jewelry Co., and announce the opening of their new salesroom and office May 1, at 804 Metropolitan Bldg., 315 West 5th St., Los Angeles.

F. W. Hatch



George G. Voege Charles Remer

The Charles Remer Jewelry Co. welcome the opportunity of serving the jewelry needs of executives and employes of the California oil industry.

J. M. Duncan Retires From Standard Service

J. M. Duncan, for 27 years District credit man for the Standard Oil Co. of California in the Los Angeles District, retired from active service effective April 30, in accordance with the retirement plan of the company.

In addition to his regular work Mr. Duncan has been a prominent figure in credit circles in Los Angeles, having served as a director of all three of the credit associations here.

He and Mrs. Duncan are planning to travel considerably, but will maintain their permanent residence, as heretofore, in Glendale.

Field Development

San Joaquin Valley

Texas Cantua Creek Try Shows Promise

Heralding what may prove to be a major oil discovery in the much prospected Cantua Creek district of Fresno county, The Texas Co.'s S. P. No. 1 yielded high pressure wet gas and a fine spray of condensate on a test of upper Eocene sands.

Located 9 miles north of Coalinga production, in sec. 23,17-15, the well is the latest of many to search for an accumulation in various portions of the vast area. Drilled to Cretaceous formations in many places, the only real encouragement presaging the current excitement was in Western Gulf's No. 3 well in sec. 3-17-15, when a small amount of high gravity oil was recovered from the Temblor at 6950 ft. and upper Eocene at 8500 ft.

Bottomed in shale at 10,116 ft., the well was plugged back to test Eocene sands logged at 9345 ft. With 222 ft. of 7⅝ in. liner cemented at 9330 ft. and the hole cleaned out to 9360 ft., wet gas blew through the tester at an estimated 2,500,000 cu. ft. accompanied by a spray of high gravity condensate.

Operators are at present engaged in running a full string of pipe to more adequately test the sands. While the fluid content was extremely light on the test, it clearly indicates that the immediate area holds definite promise of oil production. It is considered conceivable that the current well is on a gassy edge and a subsequent well might find better saturated sands.

Some six miles northwest of the current interest, J. E. Logan, Jr.'s Yearout No. 44 is drilling sec. 26,16-14 in sandy shale below 3050 ft.

Superior Drilling South Greeley Try

A mile and a half southeast of Greeley production, and on a line drawn southeasterly toward a series of deep holes one of which found Vedder zone showings, Superior Oil Co. is drilling Brandt No. 1.

Last reported as drilling at 4500 ft. near the southeast corner of sec. 28,29-26, the well is the latest evidence that Superior still believes a structure exists southeast of Greeley field limits. Previous evidence was the fact that the company drilled four wells ranging down to 13,131 ft. still further southeast on the same trend.

Possibilities of direct connection with the Greeley field are discredited by the deep failures marked up in south edge development where a major fault strikes across the trend between Superior's 12,504 ft. Krause No. 1 and Standard's 11,200 ft. Elrich Community No. 1.

A similar condition marks the break

SAN JOAQUIN VALLEY WILDCATS

Area	Well	No.	Section	Depth	Status
	Fresno County				
Cantua Creek	Logan, J. E., Jr., Yearout	44	26, 16-14	3719	Drilling
	The Texas Co., S.P.	1	23, 17-15	10116	Running casing
Coalinga	Lewis, C. H.	1	18, 21-15	1381	Drilling
	Section Thirty Oil Co.	7	30, 19-15	910	Drilling
	Shell Oil Co.	45-2	2, 20-15	3394	Running casing
Kingsburg	Erickson & Swanson	2	22, 16-22	660	Drilling
Mendota	Jergins Oil Co., Cheney Ranch	1	29, 14-13	8721	Reaming
	Kern County				
Arvin	Morton, Lindley C., Jewett	1	23, 31-29	6442	Drilling
Belridge—South	Santa Mora Oil Co.	1	10, 28-20		Material
	Union Oil Co., Fitzgerald-Weston	1	13, 29-21	7206	Drilling
Buena Vista	Gen. Pet. Corp., B.V.A.	1	1, 32-24	11886	Idle
	Shell Oil Co., B.V.A.	45-9	9, 32-25	11829	Drilling
Comanche Point	Oil Scout, Inc.	1	27, 32-29	5561	Drilling
Devil's Den	Trigg, H. C.	1	11, 25-18	492	Bldg. new rig
Edison	Goodrum & Vincent, Inc., S.P.	4	31, 29-30	513	Pumping
	Goodrum & Vincent, Inc., S.P.	5	31, 29-30	316	Drilling
Grapevine	Richfield Oil Corp., Tejon Ranch	1	2, 10-19	4946	Drilling
Greeley—South	Superior Oil Co., Brandt	1	28, 29-26	5304	Drilling
Jasmine	Premier Extension Oil Co.	1	33, 25-27	3088	Abandoned
Kern Front	Davis Petroleum Co.	1	13, 28-27	1804	Pumping water
McKittrick	Burt & Taylor, Taylor	1	30, 30-22	1047	Idle
	Cal Crude Pet. Co.	5	34, 30-22	1395	Prep. to deepen
	Franco-Western Oil Co.	18	8, 30-22	2237	Completed
	Franco-Western Oil Co.	19	8, 30-22	882	Drilling
Semitropic	Gen. Pet. Corp., K.P.C.	1	16, 26-22	3150	Drilling
	North Kern Oil Co., Sawyer	1	16, 25-22	50	Drilling
Shafter	Continental Oil Co., Comm.	1	12, 28-24	13028	Abandoned
Shale Hills	Scotia Exploration Co., Abbott	1	7, 27-19	2047	Idle
	The Texas Co., McD-Theta	1	12, 28-19	3395	Redrilling 3338
Wheeler Ridge	Richfield Oil Corp. KCL 2		28, 11-20	1485	Idle
	Kings County				
Kettleman—South Dome	Bristol Oil Co., Smith	1	35, 24-19	8054	Bailing water
W. Tulare Lake	Shell Oil Co., Cohn Estate	6-4	4, 22-19	11885	Abandoned
	Tulare County				
Trico	Tidewater Assoc. Oil Co., Daniel	35	22, 24-23		Grading

between Greeley and Rio Bravo with the new Greeley extension area running well up to the Helbling fault. Since three successive high gravity areas have been opened up on this main axis, it is not impossible that the current Superior well may find comparable sands on the southeast extremity of the line.

Two Start in Edison Field

In the small pool southwest of the main body of the Edison field, where Wood-Callahan recently completed a 150 bbl. flowing well, Fred Gooden is rigging up to drill Gooden No. 1 near the east quarter corner of sec. 21,30-29.

In the main portion of the field, Monterey Exploration Co. spudded No. 15 on the Duff lease and was last reported below 1500 ft.

Near the west quarter corner of sec. 31,29-30, northeast of Edison, Goodrum & Vincent, Inc. finished S. P. No. 4 pumping a small amount of 12 gravity oil with fresh water, and is drilling No. 5 at 300 ft. in sand and boulders.

Universal Starts New Arvin Well

Sole active operator in the Arvin area, at the south edge of Mountain View production, is Universal Consolidated Oil Co. Immediate plans call for the drilling of Cattani No. 3 in the southwest quarter of sec. 15,31-29, ground preparation for which is under way.

East of the proved area, Lindley C. Morton's Jewett No. 1 in sec. 23,31-29, was last reported in gray sand and clay at 6430 ft. after logging streaks of oil sand from 5850 to 6025 ft.

Comanche Point Test Resumes Work

Oil Scout, Inc. Tejon Minerals No. 1, is again making hole. Located near the west quarter corner of sec. 27,32-29, on the plains between Arvin and the Ridge, the well was first carried to 5508 ft. without showings. Early in April the project shut down to determine future policy, but is again digging with Taylor Drilling and Producing Co. serving as contractor. At last report the well was gray sand at 5545 ft.

Continental Abandons Shafter Area Wildcat

Another attempt to find oil production in the Shafter area was wiped out when Continental Oil Co. abandoned Community No. 1 at 13,028 ft. Drilled on a trend projected southeasterly from the Wasco oil field, the try was the latest of many such efforts. Located near the northeast corner of sec. 12,28-24, in an area where many independent operators had picked up leases, the well had commanded the interest of the smaller companies.

With all zones considered barren, a routine formation test taken in the Vedder below 12,630 ft. yielded only salt water.

Shell Abandons Tulare Lake Test

Shell Oil Co.'s Cohn-Estate No. 6-4, near the southwest corner of sec. 4,22-19 was put on the hook at 11,885 ft. Situated at the westerly edge of Tulare Lake bed, the test was the first deep driller in the area. Although working in an unknown area, it is felt that the well exhausted all possibilities through the Miocene.

Superior Pushing Rio Bravo Limits

With productive limits far from defined in the northwesterly portion of the Rio Bravo field, Superior Oil Co. is skidding rig for Osborne No. 5 to a site a little more than a quarter of a mile northwest of the current activity. With current completions indicating that the projected driller will be still high on structure, the well will be the first on the 240 acre lease.

Setting a new pace for 11,450 ft. drilling, Superior has completed Weber No. 2 in only 37 days time. Finished flowing 1588 bbls. of 39 gravity oil through a 7/64 in. bean under 1825 lbs. tubing pressure and 1950 lbs. casing pressure, the well is indicative of the tremendous power and volume the field possesses. Completed in only slightly slower time, Superior's Fink No. 3 initialed more than 1500 bbls. of similar oil. Superior's other driller, Burner No. 3, was last reported in shale at 9791 ft.

Union Oil Co., only other Rio Bravo operator, finished Kernco No. 32-34 flowing 1357 bbls. of 38 plus gravity oil through a 22/64 in. casing bean along with 1,677,000 cu. ft. of gas. Also headed for the pay dirt are Union's Kernco Nos. 45-34, 54-34 and 62-34, with No. 54 nearest completion at 10,860 ft.

Amerada Testing Expanse of Coalinga Shoreline

With the southerly and westerly limits of the Coalinga Northeast shoreline field pretty clearly defined, Amerada Petroleum Corp. is preparing to dig Corehole-SPL No. 38-9 in an effort to delineate in some measure the probable northerly and easterly limits.

Situated near the south quarter corner of sec. 9,19-16, the exploratory hole is

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Case Pumping Engines
Cardwell, Drawworks, Well Service Hoists
Chiksan Hose, Swing Joints
Crown Hydraulic Pumping Units
D & M Pistons—Rods, Liners
Edwards Wire Rope
Howard Production Crowns
Howard Pumping Units
Hughes Bits—Tool Joints
Kropp Forged Flanges, Welding Nozzles
Link-Belt Rotary Chain, Mud Screens
Manhattan Mechanical Rubber Goods Rotary Hose
Marsh Gauges
Mills Bull Plugs, Swage Nipples
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Perfection Thread Lubricant
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Ratigan Production Equipment
Raybould Couplings
Red Devil, Valves, Liners, Pump Parts
Reed Bits—Tool Joints
Republic Casing and Tubing
Republic Line Pipe
Republic Merchant's Pipe
Rex Pre-Heaters
Skinner Stuffing Boxes
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more than a mile east of the most easterly production and more than a quarter of a mile north of established limits.

Amerada Pet. Corp., discoverer of the northeast field, holds hundreds of acres lying chiefly north and east of the discovery section 7. Development has proved that the shoreline pinches out but a half mile west of Amerada's property, leaving the easterly potential acreage almost entirely in the hands of the discovery company at the north end of the field. At the south end of the field Union Oil Co. holds a half section between present semi-proved acreage and the holdings of Amerada.

Standard Oil Co., Superior Oil Co., Union Oil Co., Richfield Oil Corp., Bandini Petroleum Co., Wilshire Annex Oil Co., Pure Oil Co. and The Texas Co. are holding proved acreage as presently conceived.

Mount Poso Tests Continue Active

Bishop Oil Co. is rigging up to drill No. 3 near the southeast corner of sec. 20,26-28 at the northwest tip of Dominion pool production.

In the Ring pool of Mount Poso production, Ring Oil Co. demonstrated the vagaries of the oil business when Rodgers-Jones No. 6 found barren Vedder sands at 1745 ft., almost in the shadow of production at the same level. The well was drilled in sec. 29,26-28.

Vedder Petroleum Corp. Ltd. failed to extend the Ring pool a mile to the west when Lambert 31-2 reached a barren 2754 ft. The gray Vedder was found at 1955 ft. and the Walker at 2735 ft.

In sec. 34,27-28, A. T. Yeager's Murdoch No. 3 was last reported at 1680 ft. after reporting the wet Vedder at 1660 ft.

Otis Hoyt Plans McKittrick Well

Located near a small pool of McKittrick production in sec. 6,30-22, Otis Hoyt is grading location for Union No. 1.

In sec. 8,30-22, Franco-Western Oil Co. finished No. 18 for 284 bbls. of 19.4 gravity clean oil, and is drilling No. 19 below 800 ft.

Cal-Crude Petroleum Co. is preparing to continue drilling Well No. 5 from 1395 ft. Located in sec. 34,30-22, the well pumped a small quantity of heavy oil before the decision to deepen was made.

Crestmont Drilling At Round Mountain

Seeking to extend its outlying production in the center of sec. 8,28-29 at Round Mountain, Crestmont Oil Co. is drilling Coffee No. 3 500 ft. east of No. 1.

No. 1, completed for a little more than 100 bbls. of 18 gravity oil early in 1939, is bottomed in the Vedder at 1420 ft. No. 2 drilled late in the year found the Vedder barren a few hundred feet to the northwest. No. 3, last reported at 500 ft. is more nearly in line with Staley lease production but a quarter of a mile removed.

First Mya Void In Semitropic Well

General Petroleum Corp.'s Semitropic wildcat, KPC No. 1, in a series of three formation tests from 2700 to 3100 ft. recovered only mud from the first Mya gas zone. Located in sec. 16,26-22 the well was last heard from in shale at 3150 ft.

North of this try, in sec. 16,25-22, North Kern Oil Co. spudded Sawyer No. 1 in an avowed intent to explore to and including the Eocene unless production is effected at a higher level.

Tide Water Prepares For Trico Oil Test

With preparations under way to pour foundations for Daniel No. 35 near the west quarter corner of sec. 22,24-23, Tide Water Associated Oil Co.'s long awaited oil test nears accomplishment. Located only a mile north of gas production limits, the well will be the first to seriously attempt oil production in the Trico gas field area.

In sec. 27,24-23 Trico Oil and Gas Co. has landed casing to complete Tulare Farms No. 3. The productive gas sands were topped at 2488, 2513 and 2520 ft.

C. H. Lewis Drilling South Coalinga Try

Located south of shallow west side Coalinga production, near the west quarter corner of sec. 18,21-15, C. H. Lewis' Well No. 1 is drilling in shale at 1375 ft. At the north edge of the area, Section Thirty Oil Co.'s No. 7, near the southeast corner of sec. 30,19-15, is drilling in sand at 912 ft.

D-B Emsco Tulsa Exhibit

D-B Division, Emsco Derrick & Equipment Co., will have a complete line of D-B pumps and pumping equipment on display with the Continental Supply Co. at the Tulsa Oil Show.

The following men will be in attendance: D-B Division, Emsco Derrick & Equipment Co., W. C. Kinder; Dallas Branch: R. B. Stanbery. Emsco Derrick & Equipment Co.: H. H. Glen, G. W. Walton, W. D. Davidson, Dave Smith, S. W. Webster, Julio Zumeta, L. W. Stahl, C. L. Lamkin, C. E. Anderson, F. C. Ripley, H. J. Johnson, M. W. Horn, and Paul Courtney.

A comprehensive study of transportation problems in the United States is the assignment of the National Resources Planning Board, successor to the National Resources Committee and the Federal Employment Stabilization office.

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Los Angeles Basin

West Montebello Completion Rate Up

Since the discovery of the so-called "8-3" zone at West Montebello, the well completion rate has shown a definite rise. With the development of the higher zones nearly at a standstill, there had been only one or two, sometimes none, completions or recompletions per week, but during the past fortnight six were placed on production.

None of the recent wells could be classed as very good, the best being Standard Oil Co.'s Whitehead No. 6, an old producer which only perforated the 7th Zone interval 7040-7230 ft. to use the gas to produce the oil horizon which is yet open from 7535 to 7655 ft. Through a 1 in. bean, production is 335 bbls. or 35.5 gravity oil and 1,000,000 cu. ft. of gas.

Included in the count were two new wells which had not previously produced. On the north flank of the field, J. E. Mabee Co. plugged Monterey No. 39 back from 7790 ft. and with the 7 in. water string perforated from 7565 to 7645 ft., completed flowing 110 bbls. a day through a 12/64 in. bean.

The other new well was Geo. F. Getty, Inc. and Pacific Western Oil Corp. Star Nursery No. 1 in the southwest area. Bottomed at 7603 ft., the initial yield was 145 bbls. of 36 gravity oil cutting 6.0%.

All three deepening jobs were finished at 7710 ft. with the highest production rate being shown by Mono Oil Co.'s Foreman No. 1 which is good for 225 bbls. of clean oil. Brookline Oil Co.'s Drake No. 1 (La Merced Drilling Co.) is flowing 115 bbls. a day and Herley-Kelley Oil Operations, Inc. Masser No. 2 flowed 150 bbls.

United Montebello Oil Co.'s Well No. 3, located at the northwest corner of 6th St. and Beverly Blvd., deepened to 7940 ft. encountering only wet gray sand and shale. The project is being recompleted in the 8-2 Zone at 7610 ft.

Apparently the 8-3 Zone is very limited in extent and therefore will be of little importance to the field. However, the possibility of there being more saturated sand horizons remains good as the deepest wells within the productive area of the 8th Zone stopped short of 8500 ft. leaving a great thickness of Miocene yet to be explored.

El Rey Re-Cements Water String Shoe

After nearly two weeks of swabbing with the water content increasing in both volume and salinity, El Rey Oil Co. ran a water witch and found the trouble at the casing shoe at 7632 ft. Preparations are being made to test the re-cement job.

During the production test of the interval below 7632 ft. and above the plug at 9000 ft., much 30 gravity oil was recovered and though the fluid was lowered to nearly 7000 ft., there is still some hope that a small, clean well can be obtained.

Approximately 30% oil sand was cored in the open interval but it is hard, tight and impermeable; somewhat similar to that found at Rosecrans but lacking in adequate gas "kick" and oil saturation.

Puente Hills Well Bails a Little Oil

E. F. Stella, who for several years has been working on shallow wells in the Puente Hills, found a little oil in his latest venture near the north quarter corner of sec. 5,3-8 on the McDermont property.

Reentering an old hole drilled many years ago by King C. Gillette, the razor man, Mr. Stella deepened to 961 ft. and set 6⅝ in. casing at 931 ft. On a water shut-off test, fluid was bailed to 770 ft. and allowed to stand for 20 hours during which time 52 ft. of oil entered the hole; no water. As one barrel fills 6⅝ in. casing approximately 30 ft., it may be assumed the well has a capacity of about two bbls. per day in its present condition.

Present plans call for the installation of a pump.

B. A. Sets Casing In Newhall Mystery

With future details kept in deepest secrecy, British American Oil Producing Co. set casing in its already famous Newhall mystery well, Edwina No. 1. Estimates place the shoe of the pipe somewhere near 4400 ft. and the bottom at 4700 ft. but these may be off by hundreds of feet. It is assumed that a production test will be made after testing the water shut-off, but this again is rank guess work.

Some observers believe that no new hole was made after the casing "froze" at 2500 ft. several weeks ago necessitating a jack pulling job and the building of a new steel derrick to replace the old wood structure. At that time the depth

LOS ANGELES BASIN WILDCATS

Area	Well	No.	Section	Depth	Status
Athens	El Rey Oil Co., Westmore	1	2, 3-14	9063	Testing wso
	Melrose Pet. Co.	1	12, 3-14		Rig
Castaic	Havenstrite, R. E., Lincoln	1	16, 4-17		Foundation
	Lang, Ed. W., Rupy	1	7, 5-16	781	Idle
	Worland, C. C., Jenkins-Owens	1	18, 5-16	1950	Idle
Chatsworth	Fernando Oils, Ltd., Holmes	1	18, 2-16		Grade
Dominguez-West	Wood-Mellon Oil Co., Wood	1	31, 3-13		Building rig
Inglewood	Vanguard Oil Co., L.A.I.	1	29, 2-14	1041	Std. cem.
La Habra	Union Oil Co., Sansinena	12	31, 2-10		Grade
Mint Canyon	Redwood Oil Co., Mitchell	2	22, 4-15	575	Drilling
Newhall	British-American Oil Prod. Co., Edwina	1	14, 3-16	4700	Stdg. cem.
	Canyon Oil Co., Sanborn	1	6, 3-16		Rig
	Consolidated Pet. Co., Needham	4	13, 3-16	4398	Idle
	Creighton Hammon Synd., C.H.	1	17, 3-16		Rigging up
Palos Verdes	Rolling Hills Pet.	1	27, 4-14	6580	Idle
Puente Hills	Kasanke, J. F., Graside	1	27, 2-10		Material
Sunland	Casa Grande Oil Co., Lopez-Lundy	1	1, 2-15	2320	Idle
	Orange County				
Buena Park	Tucker, H. M., Heath	1	34, 3-11	5566	Drilling
Costa Mesa	Thompson, Milton N., Banning	1	9, 6-10	5560	Prep. to deepen
Garden Grove	Bird & Chambers	1	31, 4-10	1250	Idle
Stanton	United Oil Co., Schimming	1	25, 4-11	8198	Drilling

NORTHERN COUNTIES WILDCATS

County	Well	No.	Section	Depth	Status
Contra Costa	Tassajara Oil Corp.	1	9, 2s-1e	9777	Stdg. plugged
	Tassajara Oil Corp.	2	9, 2s-1e		Rigged up—Idle
Monterey	Loma Grande Oil Co., Corey	1	23, 24s-10e	588	Drilling
	Priest Valley Pet. Co., Greve	1	22, 20s-12e	2461	Cleaning out
Sacramento	Amerada Pet. Corp., Carpenter	1	20, 4n-3e	4354	Drilling
Solano	Calaveras Cement Co., Calaveras-Elliott	1	30, 4n-3e	3800	Drilling

was thought to be 4650 ft. and as the formations encountered have been hard, it is quite possible that a week or more could have been consumed in reaming below the surface casing which is cemented at 1150 ft.

In any case the well has all the experts guessing and, like all other tight hold-outs, has excited a tremendous amount of interest in the industry.

In the nearby Newhall-Potrero field, Barnsdall Oil Co. has temporarily suspended work on Rancho San Francisco No. 9 after experiencing difficulty in shutting off water at the shoe of 7 in. casing at 6345 ft. Total depth is 7195 ft. R.S.F. No. 10 is nearing completion while No. 11 is drilling at 980 ft.

Newhall-Potrero Oil Co. has a rig up east of Barnsdall's wells.

Bartholomae Spuds Ninth Coyote Well

Bartholomae Oil Corp. has just set surface in its ninth well on the Stern lease in the westerly portion of the East Coyote field.

On the north flank of the field, O. M. Slosson completed Sonwell Oil Co. No. 2 at 3307 ft. pumping 200 bbls. a day. A relatively high initial cut appears to be clearing up.

Torrance Well Pumping 25 B/D

Lebow-McNee Oil Co. completed Kettler No. B-5 for 25 bbls. a day in the old Main zone of the Torrance field after cores indicated the Del Amo sand to be barren. Hole was plugged from 5248 ft. to 3800 ft., the base of the 150 ft. shallow horizon. The well is located at the east end of last year's Walnut Ave. hot spot.

Kelly & Sons Complete Big Rosecrans Producer

Thos. Kelly & Sons completed McMillen No. 2 for what is probably the highest yield yet obtained in the southerly extension of Rosecrans. Though 300 bbls. production is claimed by the company, the well is commonly credited with a capacity of more than 1000 bbls. a day. It is located south of Compton Blvd. and east of Main St.

R. W. (Rocky) Jerman is suing the State Division of Oil & Gas to compel issuance of a permit to drill on a parcel less than one acre. The State contends the south Rosecrans area is a separate accumulation not connected with the old field while Mr. Jerman argues that only a fault intervenes and that the two are properly one field. Mr. Jerman's lease adjoins McMillen No. 2.

Barring unforseen trouble, three more wells will soon be on production in the southerly section; St. Anthony Oil Corp., Southern California Petroleum Corp. and Howard Oil Co. each having cemented casing above the producing horizon.

Derrick Erected For Harbor Outpost

Superior Oil Co. and Jergins Oil Co. have derrick erected for their joint try to extend Wilmington west to Mormon Island. Situated at the corner of Fries and Hermosa streets, the well is approximately three quarters of a mile west of the Gremac wells on Cerritos Channel. Basis of the play is the possible existence of another productive fault block.

Within the proved portion of the field, seven new wells and two redrill jobs were completed during the past two weeks. Tops among the Ranger wells was Continental Corp.'s No. 5 on the west bank of the Flood Control Channel. Its production of 550 bbls. was 20 bbls. above the initial of Wilton Oil Co.'s No. F-55-6 at the corner of "K" St. and Marine Ave. in the northwest section of the Wilmington townlot area.

Atlantic Oil Co. is planning to drill a Ford zone well in the near future on the Macmillan lease in the center of the field.

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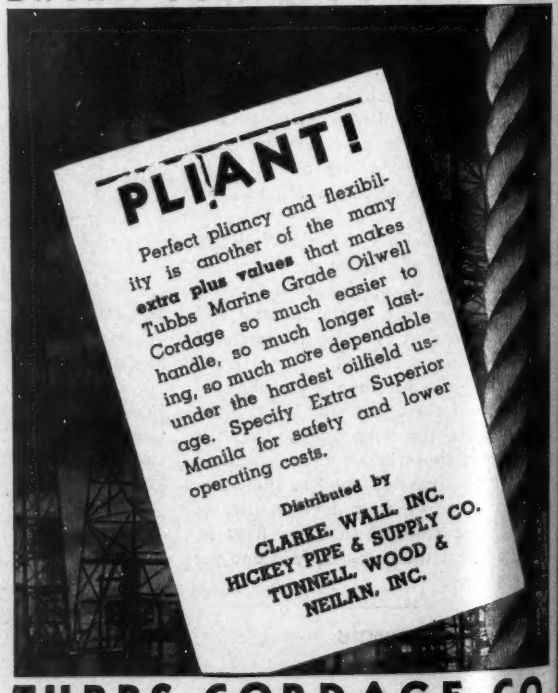
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New Field Sought West of Dominguez

Apparently seeking a new field west of Dominguez Hill, Wood-Mellon Oil Co. is preparing to drill a well north of Victoria Avenue and east of Figueroa Street. The derrick from the abandoned Pongratz outpost at Main and Walnut Streets is being moved to the site of the new well.

Incorporated in Nevada, the company has employed Pat McAnulty to supervise the drilling.

Dominguez Outpost Seeks 7th Callender

With 15-20% oil sand indicated in the Sixth Callendar Zone, Gibralter Drilling Co. is coring for the Seventh at approximately 7400 ft. Definite correlations with other wells will be unavailable until an electric log is made, but the well seems to be in a normal down-structure position in regard to Union Oil Co.'s Callender No. 76 and Havenstrite's No. 2. Location of the Gibralter well is at the southwest corner of Avalon Blvd. and Victoria Ave.

Callender No. 76, completed in the interval 7075-7565 ft., was unsatisfactory as a flowing well, but now on gas lift is producing 750 bbls. of 30 gravity oil cutting 7.0%. Havenstrite's Larronde No. 2 is reported to be flowing over 1000 bbls. but to be showing an increase in water content.

At the east end of Dominguez, W. G. (Bill) Saffold and associates are planning to redrill an old hole which several years ago was whipstocked under the Shell Oil Co. Reyes lease.

Federal Oil Seeks Miocene at Inglewood

At the north end of Inglewood, Federal Oil Co. is drilling at 3600 ft. on the way toward its 6000 ft. Miocene goal. Believed to be the best semi-wildcat play in California, it is being watched very closely by major and independent companies alike.

Huntington Beach Well Is Heavy Oil Producer

H.R.O. Oil Co. is pumping heavy oil from plugged bottom of 2106 ft. in its east side Huntington Beach outpost well. A failure in the deeper zones, the well seems now to have a chance to come out of the red.

On the flat east of the main field, Johnston, Owens & Baker are drilling at 3900 ft. after an electric log of the 3500 ft. zone failed to live up to expectations. Main objective now is the sand productive to the northwest at about 6000 ft.

Surf Associates, Inc. and The Termo Co. are each preparing to drill their first wells to the state owned production in the tideland pool. Each company will drill three.

All is quiet in the Five Points area, the Geo. Duty and W. T. Ball projects being yet idle rigs.

Buena Park Well Drills Below 5600 Ft.

Harrison M. Tucker's wildcat in sec. 34,3-11 west of the town of Buena Park is drilling below 5600 ft. with no indications yet of the presence of petroleum. Previous wells in the vicinity have shown that the top of the Repetto cannot be expected above 7000 ft.

Near Stanton, United Oil Co.'s Schimming No. 1, sec. 25,4-11, is still in Pliocene at 8250 ft. and has reported no showings of importance.

Plainview Oil Co. is preparing to start work on an exploratory well near the intersection of Hazard and Newland Streets east of Westminster.

Bolsa Chica Exploration Co. is also planning a well in the Westminster area.

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Shiells Canyon Well Pumping 175 Bbls. a Day

Santa Clara Petroleum Co. placed Calumet No. 15 on the pump in order to steady the yield which under natural flow developed a strong tendency to head. Pumping against a small bean, production is now 175 bbls. a day of 35 gravity clean oil.

Derrick is up for a new well which the company plans to drill at once.

The Texas Co., the field's most extensive operator, has Shiells 139 standing with bottom plugged from 2700 ft. to 2610 ft. and with 6⅝ in. casing cemented at 2291 ft. Several formation tests were made during the drilling of this well.

Cal. Alliance Plugs Ventura Edge Project

Failing to find anything of a commercial nature in the lower zones, California Alliance Petroleum Corp. plugged its Ventura Avenue northside outpost, Hartman Ranch No. 2, back to the shoe of the water string at 9040 ft. With bottom at 9500 ft. several tests indicated the lower interval to be wet and a plug was set at 8900 ft. preliminary to perforating the 7 in. casing in the upper horizons.

The company's second northerly driller, Schmidt No. 1, is approaching critical depths at 7100 ft.

Like California Alliance, British American Oil Producing Co. is drilling two wells simultaneously. Barnard No. 1 is spot coring below 6260 ft. while Hartman No. 10 is near the 3500 ft. level.

General Petroleum Corp. is obtaining a small flow from Barnard No. 15A on gas lift.

Major company activity, as usual, dominates the field with the Shell Oil Co. bringing in Taylor No. 55 for 500 bbls. and Tide Water Associated Oil Co. finishing V.L.&W. for 3165 bbls. and Hartman No. 18 for 1025 bbls.

Lloyd Corp. is the only other active operator, having well No. 5 under way at 5000 ft.

Petrol Corp. Renews Gato Ridge Drilling

Resuming its Gato Ridge development program after a lapse of nearly a year, The Petrol Corp. is drilling a new hole on the Tognazzini lease called No. 3-15. Spudded April 28, bottom was last reported at 1350 ft. in sandy shale above the Monterey producing horizon.

Three Projects Active In San Luis Obispo Co.

Three wells are now working in San Luis Obispo county, the most in some time.

Most important of the trio is Superior Oil Co.'s try for commercial production in Huasna Valley where small quantities of oil have been obtained for many years but never a paying yield developed. Superior's well, Tar Springs No. 1, is building a derrick in sec. 24,32-14.

In the old Edna area, California Fuel Oil Co., Inc., successors to Elberta Oil Co., is drilling well No. 3 below 2100 ft. Two previous attempts on the Rauschenplat lease netted small production.

North of Pismo, Holly Oil Co.'s Meherin No. 1 at 4000 ft. is 1500 ft. below the depth at which production was

COASTAL COUNTIES WILDCATS

Area	Well	No.	Section	Depth	Status
Santa Barbara County					
Betteravia	Union Oil Co., Pezzoni	1	33, 10-35	1366	Drilling
Carreaga	Arnold Oil Corp., Arnold-Apache	2	8, 8-33	6825	Idle
Gaviota	Republic Pet. Co., Hollister	2	35, 5-33	3200	Repairing rig
Goleta	Hamilton, W. C., Hollister	1	3, 4-29	1345	Idle
Lompoc	Sun-Bell Drilling Co.	1	28, 8-34	3064	Idle
Summerland	Oil Group, Inc., Hyland	1	16, 4-26	2206	Prep. to resume
San Luis Obispo County					
Arroyo Grande	California Fuel Oil Co., Elberta	3	5, 32-13	2100	Drilling
	Holly Oil Co., Meherin	1	7, 32-13	3966	Drilling
Elk Horn	Calif. Pet. Prod., Irons	1	19, 10-24	2527	Bailing
	Burrhus, V. E., Haberkern	1	21, 32-22	2730	Idle
Huasna	Superior Oil Co., Tar Springs	1	24, 32-14		Building rig
Ventura County					
Conejo	Sulphur Springs Oil Co., Janss	1	33, 2-19	3000	Idle
Moorpark	Shafer, Frank, et. al.	1	30, 3-19	736	Idle
Piru	Sannes, K. Sande, Janes	1	21, 5-18		Grading roads
Santa Susana	K. C. Oil Co., Marr	1	32, 3-17	1014	Idle
Sespe	G. E. Development Co.	7	13, 4-19	725	Drilling
	Merchants Pet. Co., Cochrane	8	1, 4-20	2360	Drilling
	Hall, Henry Lynn, Tar Creek	1	35, 5-19	1275	Idle
	Renard Oil Co.	1	6, 4-19	1100	Idle
	Rio Hondo Oil Co., Cosby	1	14, 4-19	1206	Reaming
Simi	Levesque, G. M., Robertson	1	17, 2-18	2325	Idle
South Mountain	Albatross Oil Co., Schiefferle	1	17, 3-20		Rig
	Mallon, Felix, Richardson	1	14, 3-21		Rig
Sulphur Mt.	Madison Oil Co.	1	24, 4-22		Rig

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first expected in the Santa Margarita. Hole is now being carried down in hope of finding something in the lower Miocene series.

Ventura Attorney To Drill Sespe Well

Chas. F. Gerard, well known Ventura attorney, is grading roads preparatory to drilling a well in sec. 18,4-19 in the Sespe area of Ventura county. The property held by Mr. Gerard is the Good-enough holdings in the north half of the section.

In sec. 1,4-20, Merchants Petroleum Co. is deepening Cochrane No. 8 below 2375 ft.

Cole To Complete Santa Maria Well

Fred E. Cole is preparing to complete Giacomini No. 1 in the northwesterly section of the field. Drilled to 4805 ft., the Monterey was encountered at 4655 ft. and the Franciscan Schist basement was topped at 4800 ft.

West of production, Union Oil Co. is drilling its wildcat, Pezzoni No. 1, at 1700 ft. The well is located in sec. 33, 10-35 near Betteravia.

Old Orcutt Field Yields Small Well

Union Oil Co. obtained only small production in the completion of Cal-Coast No. 18 in the old Santa Maria-Orcutt field. Located in sec. 26,9-34, the well was carried to 4160 ft. where with 628 ft. open, it was finished on the pump for 50 bbls. of 21.5 gravity oil cutting 30.0%.

In the same area, Union is planning to drill No. 22 on the Squires lease.

Wildcat Spuds Near Bradley

Near Bradley, Loma Grande Oil Co. has spudded its wildcat well on the Corey Ranch. The project, located in sec. 23,-24-10 in Monterey county, is yet above 1000 ft. but expects to go deep in search of Miocene production.

Republic To Attempt Gaviota Re-Completion

Republic Petroleum Corp. is grading roads to the site of the long abandoned Western Gulf Hollister No. 2 at Gaviota with the intent of re-entering the hole to attempt a completion in the Vaqueros gas sand. The old well is bottomed at 3200 ft. and has a 5¾ in. combination liner including 60 ft. perforated "c.p.ed" at 3140 ft. Only a small amount of gas was produced from this hole but it adjoins two others which were much more prolific.

Bolsa Chica Tests Piru Area Project

On a pump test, Bolsa Chica Oil Corp.'s Piru area well, Hidden No. 7, produced at the rate of 50 bbls. a day before sanding up. The 3690 ft. bottom was plugged to 3355 ft. to test a 160 ft. interval below the water string.

In the same vicinity, the company is preparing to drill Snow No. 6 in sec. 4,4-18.

Mesa Jinx Well Redrills Again

M'divani No. 5, Trans-Oceanic Oil Corp.'s Santa Barbara Mesa jinx well, will again be redrilling in search of production at the crest of the bluff overlooking the ocean. Carried through the Vaqueros and into the Sespe to 2020 ft., only meager showings were found in the original hole. A plug was set at 250 ft. and a new hole drilled to 1792 ft. which fared no better than the first. For the present try, the company plans to redrill from the shallow depth of 150 ft.

ANNOUNCEMENT

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"For the petroleum industry better days lie ahead", says a wizard of economics. "Okay", says we, "Lie ahead".

And discussing the all important question, "Should children be chastised?", a famous writer asks, "What has a mother in view when she whips a disobedient child?". If the famous writer will send a self-addressed envelop, we shall be happy to provide the answer to this one.

Incidentally, it is a bit discomforting to **Gail Larkin** that people now-a-days are getting so lazy. "Why", he says, at the height of his indignation, "Even the new cars are shiftless".

Bob Roberts, on the other hand, tells us about a conscientious cop who had almost caught up with the bank robbers when he had to stop and change his oil.

Some people never change their oil. We know a pumper who has been drinking the same stuff for forty years.

Wherewith, **Peg Whealton** recites the story of a Texas gal who was recently arrested for embezzlement. "Which", says Peg, "is one more proof that short skirts are coming back".

And when **Johnny Sherborne** met the Dominguez rousty down town with a pair of extinguished lamps, he yelled, "For the love of Mike, where did you get the two black eyes?". "Aw, shucks", replied the reveler, thickly, "I gottem at a par'y. Coulda got plen'y more, but didn have no place to puttem".

Then comes an interesting tale from the vocational training class. They were discussing gravity, and the prof asked one bright pupil, "What happens when a body becomes immersed in water?" Without batting an eye, the bright one responded, "The telephone rings".

And Junior in a late exam created a mild sensation when he said, "Creosote is when your father is black and your mother is white."

In an Oklahoma small town election some years ago, one of the candidates was an oil man named Wurld. By a peculiar coincidence he also was flattened at the polls.

John Y. Quayle, pre-distributionist, economist, gentleman farmer, and student of mathematical progressions has one more talent that occasionally displays itself. He sings in a quartet and consequently knows whereof he speaks when he says a quartet is four people each of whom thinks the other three are louzy.

By the way, our neighbor's boy has had the radio set to pieces for a week, trying to remove a quartet that he doesn't care for.

And **Joe Scanlon** asks if we have ever made any study of the octopus. According to Joe, this astute cephalopod (you can call an octopus anything) can see in all directions at the same time, and periodically squirts out an inky fluid. "That", he says rather cruelly, "is what we have been trying so long unsuccessfully to do".

Speaking of writers, an exasperated credit man wrote to a budding author the following terse message a short time ago: "In one word, sir, when are you going to pay your bill?" Came back the one word, "I will satisfy your demands as soon as I receive the money which the publisher will pay me if he accepts the novel I am going to send him as soon as the work is finished that I plan to do as soon as I find a good subject and the necessary inspiration."

"What's the big idea, you sitting here reading a newspaper when you should be working", yelled the superintendent. "Gee," said the rousty, "I knew I had forgotten something".

And, as **Jim Craig** says, "If the art of conversation has been lost, I'd hate to play bridge with a survivor of the day when it flourished".

Saying which we conclude another remarkably instructive session. Remember Thomas Edison's contention that people should eat the same things every day is still supported by many cafe proprietors.

But why is it that they always have better weather on the big boats?

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Trend Continues Up In Gasoline Sales

Trends of California gasoline sales continued upward according to the March sales report issued by the State Board of Equalization.

Gasoline distribution for last month, the report revealed, amounted to 153,864,668 gallons against which the Board levied a tax of $4,615,940.04. This represented a gain of 6.93 per cent over the taxable sales for the same month of the previous year.

The March returns also were substantially higher than the $3,872,981.52 collected in gasoline taxes for February, 1940.

Indicative of the trend in motor vehicle fuel consumption is the following tabulation of gasoline tax returns for the first three months of each of the last five years:

1935	$ 9,308,320.19
1936	11,413,442.23
1937	11,479,401.74
1938	11,424,941.16
1939	12,001,218.72
1940	12,710,978.67

Oil companies reporting sales of more than 300,000 gallons in March were listed by the Board with the explanation that resale of gasoline previously taxed and exempt sales to the Federal government or in interstate or foreign commerce accounted for differences between total sales and taxable sales. These companies were as follows:

Name	Gallons Actually Sold	Net Taxable Gallonage
Andrews, Wm. P. & Davies, Fred C., dba. Comet Oil Co.	488,783	382,947
Aromalene, Inc.	433,573	433,573
Atlas Refining Company	519,054	510,054
Bankline Oil Company	515.853	None
Belridge Oil Company	2,042,473	409,600
Brown, Henry, dba. Operators Oil & Ref.	717,282	716,056
California Oil & Refining Co.	377,282	377,282
Caminol Company, Ltd., The	4,130,661	4,021,443
Century Oil Company	933,830	920,916
Chanslor-Canfield Midway Oil	825,255	None
Coline Gasoline Corporation	952,349	24,873
Cowan Oil & Refining Company	956,539	None
Del Rey Oil & Gas Company	489,124	None
Eagle Oil & Refining Co., Inc.	4,050,584	3,479,824
East West Refining Co.	538,843	538,843
El Camino Refining Co.	772,913	772,913
Elm Oil Company	409,040	409,040
El Tejon Oil & Refining Corporation	1,409,259	1,391,269
Envoy Petroleum Co.	807,951	807,951
Estado Petroleum Corporation	1,318,156	1,317,814
Exeter Refining Company	856,382	850,958
Fletcher Oil Company, Inc.	1,175,933	638,769
Five C Refining Company	304,857	304,842
F. R. Long, Inc.	511,342	None
General Petroleum Corporation of Calif.	34,354,799	10,672,685
Gilmore-Dabney, Inc.	514,029	None
Gilmore Oil Company	6,204,615	26,386
Hancock Oil Company of Calif, The	5,848,858	3,133,015
Harbor Refining Company	510,703	510,703
Honolulu Oil Corporation, Ltd.	694,371	8,517
Kern Oil Company, Ltd.	1,607,915	790,269
Kettleman Oil Corp.	338,387	None
Krieger Oil Company	1,057,454	634,228
Lomita Gasoline Company	1,446,121	None
Los Nietos Producing & Ref. Co.	2,177,005	879,767
Macmillan Petroleum Corp.	2,380,260	2,345,162
Mangold & Tweedy Refining Co	305,145	305,145
Manufacturers Natural Gasoline	957,408	None
McCallen Refining Company	1,045,262	1,045,262
Meek, Herbert A., dba. Henry H. Cross Co.	443,865	None
Mercury Petroleum Corporation.	466,108	466,108
Moffett, J. A., dba. San Fernando Ref.	372,653	372,630
Mohawk Petroleum Corporation.	4,284,713	3,556,570
Norwalk Company, The	1,675,472	1,400,124
O. C. Field Gasoline Corp.	2,309,813	89,079
O. F. Collings, Inc.	736,404	None
Olympic Refining Company	1,223,300	1,173,599
Pacific States Oil Co.	1,056,513	1,955,233
Pacific Western Oil Corp.	598,591	873
Pan Pacific Oil Company	304,390	304,390
Pathfinder Petroleum Corp.	809,216	725,674
Petrol Corporation, The	2,087,311	1,377,285
Petrolane, Ltd.	682,719	283,092
Richfield Oil Corporation	17,619,199	14,320,232
Rio Grande Oil, Inc.	2,706,071	None
Rothschild Oil Company	851,412	851,412
R. R. Bush Oil Company	1,073,500	1,045,853
Seaboard Oil Company of Delaware	2,696,342	None
Seaside Oil Company	3,676,258	1,089,217
Shell Oil Company, Inc.	21,540,736	18,135,077
Signal Oil & Gas Company	1,500,546	None
Signal Oil Company	5,548,848	None
Signal Hill Refining Co.	1,260,735	1,026,321
Silver Wing Oil Company	394,865	394,597
Socal Oil & Refining Co.	1,069,384	764,486
Standard Oil Company of of California	54,303,728	22,904,584
Sunset Oil Company	2,764,241	None
Superior Oil Company	2,594,489	774,469
Texas Company, The	7,835,137	7,813,697
Tide Water Associated Oil Co.	26,753,907	11,356,087
Tiernan Refining Co.	433,872	422,966
Triangle Oil & Ref. Co.	624,766	624,766
Union Oil Company of Calif.	19,892,152	12,878,976
West Coast Refining Company.	435,481	None
Western States Gasoline Corp.	2,356,691	148,389
Wilmington Gasolnie Company.	410,201	86,639
Wilshire Oil Company, Inc.	8,231,376	7,679,315

Axelson Expands Lathe Business

Because of the marked increase in the operating capacities of most oil well tool and supply plants, demands for Axelson Heavy Duty Engine Lathes are now greater than at any time during the past twenty-five years. According to J. C. Axelson, president, the Lathe back-log is now nearly $500,000 and is growing steadily. Shipments this year will exceed any in the history of the company.

Axelson's production of 24-speed Heavy Duty Engine Lathes includes six sizes from 14" to 30" in standard lengths. A program of plant expansion is now being completed which will materially increase the plant capacity and improve deliveries. Recently a new 48"x48"x60' Gray Planer was installed to facilitate the machining of the larger and longer lathe beds. The Axelson Manufacturing Co. is well known to the oil industry as a leading manufacturer of Deep Well Plunger Pumps and Sucker Rods. Most of the men in the oil equipment supply business have known, that for nearly 25 years Axelson has made Heavy Duty Lathes as somewhat of a sideline. During the winter and spring of 1939, the company re-designed its lathes and went into production on a large scale. Axelson Lathes are in use in the plants of such tool makers as Baker Oil Tool, Baash-Ross, Byron-Jackson, D & B Pump & Supply Co., Emsco Derrick and Equipment Co., Hydril, Lacy, Lane-Wells, Mason-Neilan Regulator and many others.

The company has started negotiations with several representatives in South American markets which have been greatly stimulated by the fact that European supplies have been cut off by the war. Inquiries from these markets indicate that South America will provide a major part of the export market of the future.

Axelson at Oil Show

Exhibit location, Frick-Reid Building. Products on exhibition: Deep Well Pumps, Sucker Rods, Heavy Duty Engine Lathes.

Personnel in attendance: J. C. Axelson, president; D. F. Axelson, vice-president; D. M. Hammett, vice-president, manager of Mid-Continent Division and J. R. Walker, assistant manager Mid-Continent Division.

Grant Oil Tool at International Exposition

The Grant Oil Tool Co. will exhibit at Booths 257 and 258 at the 11th International Petroleum Exposition at Tulsa, Oklahoma, May 18 to 25.

Present from the home office will be J. B. Shaw, general manager, and from New York headquarters will be Lloyd G. Ensign, export manager. Also in attendance will be Roland E. Smith, foreign sales representative in the home office and a recent addition to the staff of the Grant Oil Tool Co.

Shown for the first time will be the new Grant Roller Cutter Hole Enlarger, latest in a long and successful line of oil tools designed and built by the Grant Oil Tool Company. This new tool consists of a body with three arms equilaterally placed thereon, with a roller cutter similar to a rock bit cutter placed on the end of each arm. The arms are strong and positive in their action. When open, these arms are supported by a solid steel mandrel behind the arm, as well as supported against upward stresses.

There will also be at the Exposition the well-known Grant Hydraulic Expansion Wall Scraper, the Grant Underreamer and Rotary Hole Enlarger, the Grant Roller-Bearing Cutter Reamer, the Grant Hydrostatic Bailer, the Grant Hydrostatic Perforation Cleaner, the Grant Liner Hanger, the Grant Cat Line Grip, and the Grant Adjustable Liner Puller, as well as the Grant Lightning-Change Cement Head.

Agreement was reached on April 19 by the Senate and House conferees on the Transportation Bill, S. 2009.

A total of 93,402 tickets to the 1940 International Petroleum Exposition have been sold in advance to make a record for early sales, according to General Manager Wm. B. Way, who says that this is 52 per cent more advance tickets than were sold by May 1 for the 1938 Tulsa oil show.

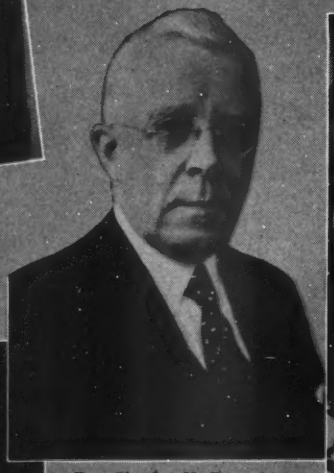
The Tulsa hotel association and the Exposition's housing bureau are now working day and night in providing reservations for the increased attendance expected during the May 18 to 25 oil show.

Scientific Exhibits Again Great Attraction

Progress in Industry from Drake Well to Present Time theme for International Petroleum Exposition's Hall of Science

The Hall of Science building first introduced at the 1938 International Petroleum Ex will again be a center of attraction at the May 18 to 25 oil show at Tulsa. A count of att showed that more people viewed these exhibits in 1938 than any other single dis the grounds. The building is a permanent structure with concrete floor.

The geophysical sub-committee of the Exposition's Scientific and Technical Committee, one of the many subcommittees assigned to secure various exhibits. Left to right: (seated) F. A. Bush, H. T. Morley, B. B. Weatherby, Frank Clark, (standing) K. K. Kimble, J. P. D. Hull.



Dr. Charles K. Francis, co-chairman of the Scientific and Technical committee, to whom much of the honor for the exhibits which will be shown this year is due, died in Tulsa March 25. His memory will be honored by his committee coworkers during the show.

Dr. Egloff views one of the exhibits prepared for the Hall of Science.

Dr. Gustav Egloff, director of research for the Uni Products Company of Chicago, who is chairman of the tional Petroleum's Exposition's Scientific and Techn mittee. He is shown in his laboratory as he works on for the Tulsa show.

C. N. G. A. June Frolic Program

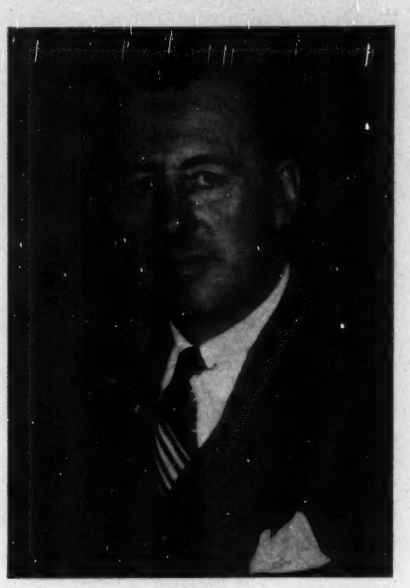
With Harry Fiske of Ingersoll-Rand as chairman of the Entertainment Committee in charge of the event, plans for the 1940 June Frolic of the California Natural Gasoline Association, scheduled for all day and evening of June 8 at the Riviera Country Club, Santa Monica, have been completed.

The daytime events, with the first flight of golfers teeing off as early as 7 a.m. have been rounded out into a mammoth sports fiesta replete with golf, baseball, badminton, polo, horseshoes, volleyball and swimming to cater to the fun of every member and guest participating. The evening program is given over to the enjoyment of an excellent dinner which will be climaxed with a rollicking, frolicsome vaudeville show featuring a galaxy of eye-filling beauty with a thrill and a laugh packed into every minute of each act.

P. S. Magruder, C.N.G.A. president, pointed out that the affair is open to all the association's friends in all branches of the petroleum and gas industries and a cordial invitation is extended to all to attend and participate in the sports and the fun.

In securing the Riviera Country Club as the site for the event, the committee has obtained one of the finest and best equipped clubs in Southern California. Its facilities include one of the finest championship golf courses, a sporty mashie course, a huge sports field and a polo field. The clubhouse, itself, will afford the gathering the utmost in convenience and comfort with fine, individual locker rooms, game rooms and spacious dining hall. The cuisine at Riviera is noted for its excellence and one of the finest, tastiest dinners on record is assured.

The program calls for golfers to tee off at six minute intervals up to noontime. Green fee tickets must be purchased at a special desk set up in the locker room for the convenience of C.N.G.A. members and their guests. Starting time reservations must be made through George Tyler, association secretary, at least 10 days in advance. As usual, prizes for low net, low gross and blind bogie will be awarded. It is pointed out that the club's mashie course may be played without cost.



Harry Fiske

As is custom, free beer will be available to members and guests throughout the day. Kegs for serving will be set up at convenient points on the golf course, baseball diamond and sports field. The feature of last year's Frolic was the old fashioned German Band whose side-splitting antics added much to the day's merriment. This organization will play a return engagement by popular request.

A wholly new sports event on this year's program is a polo game to be played by two of Southern California's ranking teams. Our group is privileged to attend without charge.

Already, the Majors, smarting under last year's ignominious defeat by the Independents to the tune of 13-0, are seeking a DiMaggio in their ranks to lead them out of the wilderness of defeat. Always popular, it is expected that this year's baseball game will again be well attended. Badminton courts will be set up on the club's sports field and while nets will be furnished, participants are advised to bring their own racquets and birds. Another added event on the program is volleyball while the old stand-by horseshoes, is bound to come in for its share of popularity. Members desiring to swim will find arrangements have been made with the Deauville Club, near by, as was the case last year.

Dinner will be served in the clubhouse dining room at 6:30 p.m. and door prizes will be awarded. The balance of the evening will be given over to a vaudeville show which is said to be one of the finest of its kind ever assembled for the event. In view of the fact that a record turnout is anticipated, those desiring to attend are requested to make their reservations at the earliest possible moment. Tickets, which include dinner, are $2.50 and reservations may be made by phoning George Tyler, secretary-treasurer of the association at VAndike 5521 or by mail to C.N.G.A. offices, 510 West 6th Street, Los Angeles.

Directions for reaching Riviera are —from Los Angeles, straight out Sunset Blvd.; from Taft and north, take Sepulveda cut-off north of San Fernando to Sunset Blvd., turn right direct to clubhouse; from Long Beach, 101 alternate to Redondo, thence over Sepulveda and turn left to club; from Ventura and Coast, 101 via Oxnard and turn left at Sunset to clubhouse.

Long Beach Deep Test Is Now "No Dope" Well

Changing from his former liberal policy, John De Maria is now refusing to put out any "dope" on Allied Petroleum Corp.'s No. 34, Long Beach deep test, which is located across the street from the new zone's discovery well, De Soto No. 1. Drill pipe count indicates present depth is about 10,500 ft.

Shallow zone activity continues heavy with Wilbur completions ranging from 25 to 150 bbls. a day at depths between 3400 and 3900 ft.

Receipts from the Federal gasoline tax for the month of March 1940 were $14,909,664, compared with $14,577,873 in March 1939, the Internal Revenue Bureau reports.

Employes engaged in producing petroleum in California declined 5.6% in March 1939, according to the State Division of Labor Statistics and Law Enforcement.

Continuous Indicator Rotary Mud Density

M. O. Johnston Oil Tools, Inc., Los Angeles, has announced development of a new electrical instrument that continuously indicates the density of rotary mud while drilling.

The instrument, known as the Johnston Mud Weight Indicator, continuously indicates on an easily-read dial the density of the mud in pounds per cubic foot, it is said. Readings on the dial can be made within one quarter pound. If desired, the unit can be furnished calibrated for wider weight ranges than regularly

supplied (62.4 to 90 p.c.f.). It is also available calibrated in either the metric system or in pounds per gallon.

By giving accurate readings of mud weight at all times, this instrument assures greater safety and efficiency in all types of drilling, because it instantly notifies the driller when dangerous weight changes occur.

Another important feature is that the instrument can be used with equal efficiency to measure, continuously, the density of cement slurry being mixed for cementing operations. For this purpose the instrument is furnished calibrated to weigh slurries from 80 to 130 p.c.f.

The Johnston mud weight indicator operates on an unique electrical principle whereby a small power coil electrically operated induces vibration in a unit consisting of an out-put coil, a reed, a reed mount, and a paddle. Immersion of this vibrating paddle in rotary drilling mud causes its vibration to be damped by virtue of the resistance to its movement caused by inertia of the mud, which is a function of the mud weight. This damping of the paddle and subsequent damping of the reed mount attached immediately thereto, causes the reed to vibrate at a given amplitude and move the above mentioned out-put coil attached to its end through a permanent magnetic field. This movement causes voltage to be induced in the coil and current to flow through an indicating meter to which it is electrically connected. Varying degrees of dampening, as afforded by muds of different density, causes a subsequent change in the amplitude of the reed, and, consequently, electrical currents of varying magnitude, depending on the mud weight, are produced. Calibration of the electrical meter to indicate these varying currents in terms of density or pounds per cubic foot enables the operator to read directly the weight of the mud in which the paddle is submerged on this scale.

Installation of the Johnston Mud Weight Indicator is relatively simple. It mounts directly on the side of the mud ditch or adjacent to the screen. The indicating gauge may be mounted on the instrument panel in front of the driller, or at any other point desired. Operating current on the present type is obtained from any 110 V.A.C. line of relatively constant frequency. A battery operated unit will soon be available. The part of the instrument immersed in the fluid is completely enclosed for protection and in no way interferes with the normal flow of the mud. Rugged construction inside and out, plus vibration-proof mountings insures trouble-free operation. It is easily portable and can be readily moved from one location to another.

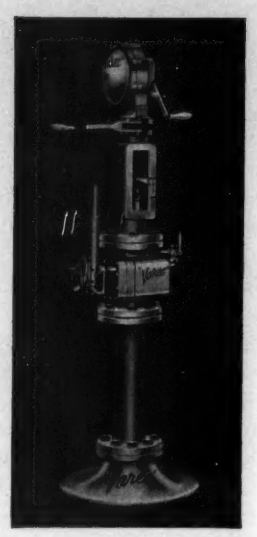
For further information concerning Johnston Mud Weight Indicator write direct to M. O. Johnston Oil Tools, Inc., 3117 San Fernando Road, Los Angeles, Calif.

"Varec" Gas Tight Gauging, Sampling Unit

A new Figure 410 Gas Tight Gauging and Sampling Unit with which an operator can now gauge liquid levels, take spot or running samples and temperatures, without losing any gas or pressure, is announced by Vapor Recovery Systems Co.

The design of the unit permits chalking or pasting the gauge tape at any point when used in colorless fluid and a window is provided to view the cut on the tape.

The sampler and temperature bomb is inter-changeable with the plumb bob and is opened or closed at any desired level by a simple operation, the sample being



sealed in the pressure tight bomb for transportation to the laboratory.

The entire unit is available in various materials for any working pressure or corrosive condition. The Vapor Recovery Systems Co., 2820 North Alameda St., Compton, Calif.

Vernon Tool Co. Elects New Officers

At a meeting of its board of directors early in May, Vernon Tool Co., Ltd., 2740 East 37th St., Los Angeles, elected Ward Blackburn president, and John H. Suter, vice-president. V. H. Bowen was elected treasurer of the company.

Havenstrite Starts Castaic Wildcat

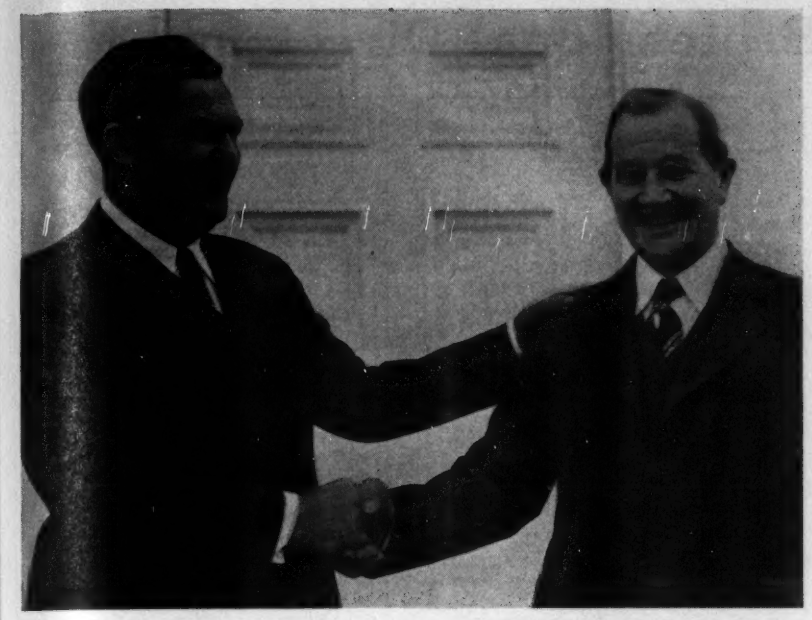
Located according to geology by R. W. (Dick) Sherman, R. E. Havenstrite is preparing to build a derrick for a test of the Del Valle Anticline near Castaic.

The stratigraphy of the area is said to be identical with that in the Newhall-Potrero field which Mr. Sherman was instrumental in discovering for Barnsdall Oil Co. The well will be in the southeast quarter of sec. 16,4n-17w.

New Test Started In Victorville Area

B. K. E. Drilling and Production Co. of Los Angeles is building a derrick for a cable tool wildcat in sec. 4,4n-3w approximately eight miles southeast of Victorville and six miles east of Hesperia.

Between Victorville and Lancaster and south of the highway, Willett Oil Co. is drilling in an extremely hard formation at 1200 ft. while west of Palmdale, Hammond Brothers recently drilled a 900 ft. well.



G. A. Overstrom, right, and Paul Medearis, are congratulating one another over the new marketing and service set-up for Overstrom Mud Screens in California. Medearis Oilwell Supply Co. has just been appointed exclusive California distributor for the Overstrom line.

Medearis Sole Overstrom Agent

Medearis Oilwell Supply Company has been appointed exclusive California distributor for the new high capacity Overstrom Vibrating Mud Screen manufactured by Overstrom and Sons in Los Angeles.

The new high capacity Overstrom Mud Screen is claimed to embody many advanced features of construction and operation which have been worked out over a period of years by G. A. Overstrom, who is the inventor of the vibrating rotary mud screen and holds the patents under which all vibrating mud screens are manufactured, it is said.

The term "High Capacity" is applied to the new Overstrom Screens because they are much larger machines, which makes it possible to use a greater area of screen cloth and a cloth of finer mesh. The increased area allows a larger volume of fluid to flow on to the screen, and the use of finer mesh screen results in the separation of the smallest particles of sand and shale from the circulating fluid. Overstrom Mud Screens of the new design are in use with the largest slush pumps; one installation in the Rio Bravo Field is handling the output of the latest 15½"x9¼"x22" mud pumps.

Numerous improved features of construction are claimed for the high capacity Overstrom Mud Screen. The discharge end is completely sealed off by a flexible member in order to prevent the screenings from re-entering the cleaned rotary mud. Even distribution of the mud from the well as it flows onto the screen cloth surface is accomplished by a novel combination of lever-operated wing deflectors. Thus, the entire area of screen cloth is used, the screening capacity is greatly increased, and wear is uniformly distributed, resulting in considerably longer service life of the screen cloth. There are no lubrication points to require continuous greasing, as the vibrator runs in the oil bath. The oil is changed only periodically, in the same manner that crank case oil is changed.

Any kind of electric motor, or a Trojan steam turbine, can be used with the Overstrom Screen, the mounting base being designed to accommodate any desired type. A safety guard for the operating belt is provided with the mud screen.

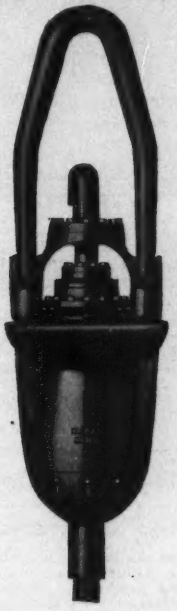
Another feature which is stressed as being of great importance to operators who use special mud tanks is that the Overstrom Screen is specially constructed for easy mounting over any type of tank. This is made possible by the horizontal mounting of the springs which gives proper pitch to the screen.

In addition to handling the distribution of Overstrom Screens in California, Medearis Oilwell Supply Co. will continue to operate the complete rotary mud screen service which this company has had in effect throughout California fields for several years. The Medearis Mud Screen service organization operates out of Los Angeles, Avenal, Ventura and Bakersfield and is on call day and night. Experienced service men repair and adjust all makes of vibrating rotary mud screens, in addition to the Overstrom line, and carry with them all of the tools and equipment necessary for this work. Screen cloth replacement for all types of mud screens is greatly simplified by the service organization, inasmuch as screens of any desired mesh for all makes of machines are brought to the rig cut to size and ready for installation.

Further details concerning the new high capacity Overstrom Mud Screen may be obtained from Medearis Oilwell Supply Co., 8638 Otis Avenue, South Gate, California.

Regan Exhibited at International Oil Show

Numerous new products are to be presented in the Regan Exhibit, including a new type of mud screen, a casing centralizer, a 300-ton capacity, multiple bearing swivel, and various applications of



blowout preventers. The exhibit will show various types of Regan equipment suspended in the air, rotating, so that the visitor can see all parts of the products from one position. A novel demonstration of the new Regan Casing Centralizer has been constructed to show its operation in the well, demonstrating the movement of the feet within the open hole formation. Miniature models of the centralizer, molded in plastics, will also be shown. A new type of stereoscopic projection will present enlarged Kodachrome views of Regan equipment in the field. The huge, narrow type 121" Regan Traveling Block, with a height of 156", will be suspended from a specially fabricated structure. Various types of tubing heads and tubing blocks will be exhibited. With the recent appointment of Regan Forge & Engineering Co. as Mid-Continent and Gulf Coast distributors of Bettis Casing Protectors and Stabilizers, a complete line of these products will be shown, including installation equipment.

Other equipment to be shown will include the Regan Crown Block, Regan Blowout Preventers, Regan Casing and Control Heads, Regan Combination Hooks, Regan Oil Savers; also Rod Strippers, Removable Sleeve Type Rods, Gin Pole Sheaves and Swabbing Sheaves.

Among those in the Regan organization who will be present to meet visitors will include, from the West Coast, Tom Regan, C. M. Fuller, Stanley Minor and Tut Lee. R. A. Hill, Manager of the Mid-Continent Division, and other sales engineers will also be present.

Announcement has been made by the Independent Petroleum Association of America that its annual meeting will be held at Dallas, Texas, Oct. 16 to 18 this year.

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LOS ANGELES
CALIF.
MIchigan 8781

GERARD HENNY, Ph.D.
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Procurement Division of the Treasury Department has issued proposed specifications for two grades of gasoline to be used in its purchases of gasoline commencing July 1, 1940: (1) Proposed Federal Specifications for Motor Fuel R, (a) for regular grade (R-70), and (b) for premium grade (R-77); (2) Proposed Federal Specifications for Motor Fuel S for straight run, unleaded gasoline.

MAPS

Large maps of Los Angeles Basin oil fields and map showing all California oil fields. Price $15.00 each on paper and $20 each on cloth. Individual state oil and gas maps of Mid-Continent and Rocky Mountain regions. Maps show geological cross sections at base. These maps indicate wells drilling, wells producing and abandoned, with depths.
All maps revised up to date of purchase.
JAMES C. BRANSFORD
1127 Story Bldg.
Los Angeles, Calif.
Phone: TUcker 7530

An opinion by the attorney general of the State of Washington states that where a resident of Washington purchased an automobile in another state and paid a 3 per cent sales tax imposed by that state he would not be liable for the Washington compensating tax upon returning to the state if the purchase was made prior to March 17, 1937.

Oil Men's Calendar

C.N.G.A. Meeting First Thurs. Each Month.

May

6-10—American Gas Assn., Natural Gas Section, Houston, Tex.

13-15—American Institute of Chemical Engineers, 32nd Semi-Annual Meeting, Statler Hotel, Buffalo, N. Y.

15-17—Natural Gasoline Association of America, 19th Annual Convention, Hotel Tulsa, Tulsa, Okla.

18-25—International Petroleum Exposition and Congress, Tulsa, Okla.

27-31—American Petroleum Institute, 10th Mid-Year Meeting, Blackstone & Texas Hotels, Fort Worth, Tex.

June

9-14—Society of Automotive Engineers, Summer Meeting, The Greenbriar, White Sulphur Springs, W. Va.

17-20—American Society of Mechanical Engineers, Milwaukee, Wisc.

24-28—American Society for Testing Materials, Chalfonte-Haddon Hall, Atlantic City, N. J.

California Crude Oil Production

Two Weeks Ended April 27, 1940

	April Daily Quota	Average Daily Production	Excess
San Joaquin Valley			
Belridge—North	11,818	10,800	*1,018
Belridge—South	2,063	2,004	*59
Buena Vista	16,422	16,074	*348
Canal	5,932	6,268	336
Coalinga-E (Eocene)	14,518	14,707	189
Coalinga—East-West	15,186	10,550	*4,636
Cole's Levee	4,400	5,292	892
Edison	2,286	2,160	*126
Elk Hills	6,828	12,527	5,699
Fruitvale	5,851	5,439	*412
Greeley	3,728	3,233	*495
Kern Front	7,285	6,406	*879
Kern River	6,768	3,996	*2,772
Kettleman No. Dome	34,397	44,839	10,442
Lost Hills	3,902	3,803	*99
McKittrick	3,723	3,460	*263
Midway	37,046	30,850	*6,196
Mount Poso	9,420	9,366	*54
Mountain View	8,401	8,786	385
Rio Bravo	7 832	8,062	230
Round Mt. and Coffee Canyon	7,059	7,273	214
Ten Section	8,741	8,785	44
Wasco	1,429	1,388	*41
Other Fields	3,531	3,293	*238
TOTAL	228,556	229,361	805
Coastal Counties			
Elwood	3,592	3,702	110
Rincon	2,605	3,916	1,311
Santa Maria	5,969	3,094	*2,875
Gato Ridge	2,273	.....	*2,273
Santa Maria Valley	17,972	17,795	*177
Santa Paula-Newhall	5,839	6,429	590
Ventura Avenue	31,373	32,366	993
Other Fields	5,338	5,325	*13
TOTAL	74,961	72,627	*2,334
Los Angeles Basin			
Alamitos-Seal Beach	7,110	7,054	*56
Brea-Olinda	8,041	5,889	*2,152
Coyote—East	3,345	3,596	251
Coyote—West	10,110	6,059	*4,051
Domingues	16,653	20,434	3,781
El Segundo	2,361	2,534	173
Huntington Beach—New and Old	22,691	27,319	4,628
Inglewood	12,390	12,543	153
Long Beach	38,919	44,759	5,840
Montebello	5,898	5,048	*850
Montebello-West End	19,421	16,187	*3,234
Playa del Rey	3,933	4,152	219
Richfield	7,078	8,260	1,182
Rosecrans-Athens	8,101	9,787	1,686
Santa Fe Springs	23,941	25,334	1,393
Torrance	5,041	4,940	*101
Torrance "34" and "D & B"	6,303	6,750	447
Wilmington	79,061	831,07	4,046
Other Fields	4,011	4,624	613
TOTAL	284,408	298,376	13,968
STATE TOTAL	587,925	600,364	12,439

*—Shortage.